



A SELECTIVE MICROFILM EDITION

PART II (1879–1886)

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Thomas A. Edison Papers

Rutgers, The State University

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New Jersey.

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THOMAS A. EDISON PAPERS

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THOMAS A. EDISON PAPERS

A SELECTIVE MICROFILM EDITION PART II (1879-1886)

REEL 65

DOCUMENT FILE SERIES (DOC-25)

D-83-016 [continued] through D-83-019 ("Edison, T.A. - Outgoing Correspondence" through "Edison, T.A. - Visitors")

D-83-016 Edison, T.A. - Outgoing Correspondence

CONTINUED FROM PRECEDING REEL

Soutember 1st.

Sajor Plood Page, Coneral Santger,

sdison 'n Indian a dolonial Electric Co. 1

Jondon, G. C. dingland.

"Boar Sart-

Then to give you below prices for machines, which we are now manufacturing:-

100 light saching 3 400

400 Light Saching 1,500

To are notting one designs for a is light machine, which will cost about 3175; a so light machine which will be sold at about 3175; we are also designing a 200 and 300 light machine, but cannot state what the price will be, until we have got a little further along in our work. Of course the only prices which you can look upon as absolute are those for the 100 and 400 light machines. In the course of a week or so, I can deabtless give you prices of machines of other denominations. All our prices are quoted 2. O. B. in New York, but should any extra packing be registed to charge you for it. In shipping to Empland and the Continent, we are in the machine only our ordinary packing, but I presume if we Mayor

to ship to Australia for you, especially if we have to ship by Peabody's cutters, we shall have to use extra packing.

I also be: to hand you herewith price list of the Bloctric Tube Company for tubing on three wire system. These prices are subject to variations in the price of iron piping and or copper

I will send you a pirto list for lamps by Saturday's mail. I have been unable to got this out, owing to the absence of al Upton, the Manager of the lamp Factory.

I understood from you when you were here, thut you had "obtained from Bergmann & Go. their prices,

Very truly yours,

Rnelosuro

Sopt, 3rd

3.

Charles Batchelor, Esq.

Paris, France,

My Dear Batchelor;-

I find that I did not answer your letter of "
the Buth, June, asking no to explain how it was therewas a cross
on the Mains, in the down town district which the saroty datches did not take care of, and which was only get rid of by putting on engine after engine until a place of tube was burnt right off.

you will remember that the safety catches were only put on one pole of the system. In the first case they are rectified in the inside wire work by using a double safety catch, but the underground system was still left with only one side, consequently, when the grounds appeared the unprotected side of the civeuit a short circuit was inevitable. Do you understand? I savery porr on electrical descriptions, and more depocially when it refers to a subject that I am not really conversant with.

I onelose you herewith depicts of two statishes drawn by Edison, the original of which I have sent to theb, hilan. This will show you exactly what we was at the central statish as an ampere recorder. It is attached to the contibus main in the state.

XXUN

tion. Bradley carefully recorded the merements of the needle and a compared these with the steam eards taken as the same time and them arrived as the exact number of lamps indicated as being on by the movisions of the needle, he then prepared a scale, and attached it to the recorder, so that when a deflection of the needle taken place is will point out exactly the number of lamps burning on the system at that mount. The thing works very well indeed, and it a second interesting to watch its movements. If it happens to be a showery day, and a cloud suddonly comes up, the number of lights but in within a few memoris is very large, as is shown by the deflection of the needle.

Your tenly yours

Englossica

Aopt. 3rd

. Shaw, Daq.

Penna

Doar Sir.

We have again gone into the matter of a central station

lot at bolloronte.

For 40 x 130, price \$450, on Jamb stroot, is the one best

Those.

Very truly yours

Soutomber 3rd.

.

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I have not yet resolved anything from you stating whichter you can and how soon you can ship six # 2 x 10 engines.

All that we have is to the effect that you can shipp three weeks

from the receipt of order. I we wanting to cable to londen on
this point, and would arre you to lot no have the answer immediately by wire.

Very truly your

Sept. Srd. 1868.

Charles 7. Westervolt, Esq.

130 Third Avenue, Cit

bear Sir:-

Referring to your Tayor or the 30th, alte., I think you are in every in stating that I charged you with being dishenest.

I had information which lod no to believe that momentum of Very possible character had taken place with relation to the pay-rells at Goorch Street, and by informat commented your major with it.

I am glad to hear, hewever, that you are perfectly imposent, and that if anything ordered an relation to the above matter, you had no co-mountain whatever with it.

Very truly yours.

Sept. Srd. 17 63

A. Stuart, Esq. Secty.

Ohio Edison Cloetrie Installation Co. Cincinnati, Ohio.

Dear Sir;-

Referring to your letter of the soth ulto., I should "
The to have pointed out deere we had a 100 for cent on the items in the lique estimate. I think there must be some error as to this matter, as our figures were all just at the lowest possible point to enable us to get our "making".

Vory tral/ yours.

Sopt. Sad

1.5

C. W. Wilber, Esq.

Webster, Hass.

Doar Sir:-

Your various letters to hand.

Will you ploans addorten at what time the library at Mashburn pair, at Wordenson, lights up?

In future we shall be glad, themever possible, if you will save us the time of the lighting of all published.

I as unable to tool you exactly where you will go to after after you have canvassed somethings, but will let you know in the course of a day or so.

Vory truly yours

ory ording yours

Saptombo



I. W. Sorroll, Msq.

140 Massau Stroot, Cit

Doar Sir:-

Referring to your favor of the Clat, I have heard from Mr. Conkling since you may had, and sy letter to you was in consequence of a communication from him stating that he would det for

Yery tridy yours,

15

Soit. Ord.

Sponeor Bordon, Esq.

r. c. box, anii,

Boston, Bass

Doar Cir:-

soul you by this mail, under separate cover, map or Servestar with red circle marked thoroun.

Thouse have the tree of lots obtained, that are for salp within the area marked, and send same to us, together with the equipment herewith.

We want the lots marked distinctly on the map, and shall be glad to have rull information as to the sizes of each lot.

The price of same, the nature of the size whether there are any buildings on the lots, and if so, the character of same and size.

Wo are waiting for the location of contral stations at Morth Adams, and Pittariold. Please let us have those as soon as possible.

Vory truly yours,

Sopt. 3rd.

3

Major Flood Page, con'1. Manager,

Edison's Indian A Colonial Electric Co.

Jondon, R. C. England.

"oar Sir:-

You asked for a statement, when you were here, of the number of Avaington a Sims engineer used by us.

I onclose you a list Which gives you the engines shipped up to July, luss. We are ordering these engines right along, so that this list, up to this date, is inecephate.

Yory truly yours.

September 3rd.

3

Goorge S. Jadd, Esq.

San Francisco, Cal.

DugirDums Sir:-

I find that your letter of the flethally has been dislaid, hence the delay in replying to amic.

I as \$2500 to you for the Post Office Order for 35.

I presumed that you had forgotten about the nation, and know that I would hear from you as soon as it occurred to you.

I enclose you herewith a memorandum propagod by her.
Ediaton as to conversing. If it does not give you all the information you desire in relation to this matter, please notify no
as to what further you would like us to explain, and I will answer
you broams!?

Yory truly yours

P. D. Dyer, Esq.

St. James Notel.

Springfield, Chic.

Dear Sar:

Infuture planse give megaposable, the time of lighting of all public halls, libraries se., as this information will we very dsorul to as:

York truly yours.

Santomber 3rd.

Edison Lamp Co.

Harrison, N. J.

Doar Sirs:-

Referring to your Mr Wolzer's letter of the 30th, ult,.

I think it would be advisable to stick to by . fibres and try

and work up the life.

Yory traly yours,

Sopt. 3rd.

Charles T. Raghes, Esq.

J. S. Notal,

Mowburgh, H. T.

Dear Sir:-

I sond you by this mail map of howbargh with two circles thereon, and shall be glad if you will let us have a memorandisa of the lets for sale within that area, giving the size and price of each let and the nature of the soil, and whether there are any buildings on the lets, and if so the character MR NEWS and size of sans.

It would be preferable to have the control station inside of the circle AA and if not inside of the circle BA.

In sending the above information, please return the map with the lots marked distinctly thereon.

Very truly yours,

Sunbury

Sopt. 3rd.

W. S. Andrews, Esq.

Mational Hotal.

Shenokin, fonna,

bear sar:-

If the summary engineer should get more, could his brother run the station?

no you think that the engineer and his brother could answer the questions with relation to the engineer and meter work, which in alicent sont you and which you answered?

Can you give me any Thromasion of the total number of lights connected at Sunburys

I have belographed this horning to im Harr asking him to sould holls the virguan, who is now at Sumbury, to report to you at Sumbury, it is an is shauchin, but pending in Educate a arrival there, I do not want any arrangements said with a local lain, as in Educate vision to choose one himself. If he touty desires some houses wired, you had better ask him to engage such a man as holls would wish to assist him, say a local compensation. This engagement should not be of a penament character, but only by the day. I want you to see that holls does his work well and economically, and also desire "that you should look up some jubium carpenters in Shambian, so

that when he Edison goes shore, he will have little difficulty in picking out the man he wants.

On Honday I shall send in Journard to take the place of him Comant, as I want Comant to go to Projectin Tuesday night.

Yery traly yours,

Sout-Sed-

J. R. Campboll, Eso.

Bellefonte, lonna.

Dear Sire-

Referrance to your Tologram of vesterday's date. I begto send you herewith another man of bellefonte.

The central station we have chosen is on lamb Street, lot 40 : 320.

You will have to get a permit to run our feeders from the back of the lot to the wed lines, and the course our reeders will take is indicated by the white lines on the name.

Please soo if you can got this pormit, and return the may to us at the earliest possible moment.

We will advise you by telegraph where to go after you got through at Bellefonte.

You will notice attached to the maps sent you some remarks by ar Spargue, which will explain to you what permits are required, in addition to those stated to you when you were here.

Very truly yours.

3

Major Plood Page, Gen'l, Manager,

Edison's Indian & Colonial Electric Co.

Jondon, E. C. England.

Dear Sir:-

Enclosed horostic please that statement of Mr. Edusen as to convessing terms for contral station purposes, alsomatatement as to the progress of our business in America. If you desire any further information on those points, please information and I will write you fully as to the Matter.

Very truly yours.

Enclosuro, d

Boyt. Grd. 1550

C. D. Willard, Seq.

care be Phonson, Willard & Go.

Forgentown, K. J.

Dear Sir:

Goodd you take some of the cores which we have at "Goord Street and hazzer then down so that they would be thicker and shorter? If so, on that torus would you do this?"

We wish to alter over a manber of our W and I machines, and in order to do so economically we shall have to get the cores hashered down to shorter lengths of great dissect.

Very truly yours,

1883.09.03

September Sre

John W. Hagb. Esq.

via bansoni, ld A,

Hilano, Italy.

Dear Sirt-

I find your letter of the lat. July has been everlocked.

If the Tealian company will give you from about to a Sisson a year, I donnot think you would be doing better if you took from these a three years contract.

I thank it would be a great mintale to use designilators with relation to the stateon. If you will communicate with mintehelon, I have no doubt he will give you all the inversation you may desire on this subject.

You should use an ampine motor to show the number of Eights on the system at any fixing time.

I onelose you herewith rough shotch of an instrument that we use for that purpose, which works you well indeed.

Vory truly yours.

Sopt. 3rd. 1983.

H. C. Blackmar, Esq. Supt.

H. Y. Hica Hining Co.

Custor, D. T.

Door Sir:-

Your very abusive letter of the 17th, ulter, addressed to my jorks, has been turned over to me to reply to, in consequence of the gentlemen who nonducted the correspondence with you having left my service.

I (have called for copies of the whole correspondence with you in relation to this matter, and will embeaver to settle it immediately the same is placed in my hands, as it is very distraction to no to be compelled to have dealings with any one who desire the verdency of statements emmatting either from my own efficiency the office of my shope, the paraor machine works.

I do not know what has noon done in the matter recently, beyond your letter of the 17th, again, so as unable to may anything further than this at this Witting.

Very truly yours,

Dynamos

Sont Ow

3

Messrs. Bergaam - Co.

202 Avonac B, City.

Dear Sirs:-

BR dadrovs writes as follows Ath Foldtion to the new house changing switches:

"On further consideration, I think the connecting justs on double main switch should be made on sense pattern and size as "connecting post on head-board of "N" dynam, as there will be "three wires running to each of them, and it will be best to claim?" "all three."

Will you see that this is done.

Yery truly yours.

Postento.

Sept. 3rd.

Charles Tatchelor, Esq.

Pavis, Franco.

Done Sir -

I wrote you some which hack in reference to Italian patents, and you sent a form which is not exactly what is required by Ws.

What we want to got is a copy of an official payor or order issued by the Italian Government in response to an application for prolongation of a patent.

Very truly yours,

Alfranto este pe de la

Sops, 4th.

George M. Hopkins, Esq.

C-O "Scientific American" .

261 Broadway, City.

Doar Sir;-

I have your letter of September 3rd, and in reply would bee to state that you can use by mass as reference.

Trusting that your vonture will be successful, I remain,

Tak.



Danbury

1883-09-0

opt. 4th. 3

u. W. Milbor, Enq.

Webster. waso.

Doar Sir:-

I wish to call, your attention to some omissions which you made in the canvass of manbary, in order that you may rectify them in ruture:-

YURNER HOUSE. An old roundons of the place informs me that this is a large and first class hetel. You fail to monition it in your canyage.

PATEROAD DEPOY. You only show two lights in the telegraph office. has about the waiting rooms, superintendent's office, platform de.y

OPERA HOUSE. You rail to montion the number of light or the approximate time of burning.

INMELTIMES. When there are only two or three deallings in a large block of say 1000 root, you should always state about how many root those houses are situated from a certain corner, as it is more than likely that without this information the lights will be improperly located. It is not necessary for you to give us the exact distance, for all processary purposes you can arrive near enough to it by packing.

In crossing railroad tracks, bridges or may other hoticoable land-marks, please mention them in your canvass. I notice

14

that you generally mention railroad tracks, but you omit to say anything about bridges.

When there are no houses on an alloy at as unnecessary to take up three or rour paper to may, "cant side nothing, north aide nothing, west side nothing." If you would sumply make a note at the top of the paper at would amover.

Yor/ tral/ yours,

S-b,

Sopt. 4th.

3

James Swinburne, Esq.

6 Normanby Torrace,

Gatoshoad-on-Tyno, England.

Doar Sir :-

I be: to acknowledge receipt of your favor of the 21st.
ulto., and note what you may about the double sinding of dynamos
and thread curbons.

In reference to the former, I used those doube dynamics 3 2 years ago, and my patent is about a year old how.

We have made thread curbons but profer usans bumboo.

I remret to say that I am anable to avail agent of the opportunity of securing your very valuable services, as I have no position which I can offer you.

Yor's truly yours,

Jak.

Sopt. 4th.

Fad. Sprague, Enq.

Hotel Falmer,

in ock ton, mass

Boar Sir:-

I have sent you by express this morning two maps of haverfull, one boing your determination and the other a determination made by an elundrum,

I wash you would compare whose and let me have your fanal descrimensation, resurning both maps.

I would like all involvation from you to be given in full detail, so that nothing may arise that will provent our going right ahead and gotting out officiates after maps have been received from you.

Very truly yours

A

Sojt. 4th.

r. J. Spraguo, gaq.

Botel Palmor.

Prockton, Hass.

bear Sir:-

I some this sorning by extrees supe of Regine and Villiamspore for your descriminated,

it will be necessary to decide in each case upon the lot host suited to our purposes.

Please let me have this back grain at the earliest possable moment, as we are being prosped for estimates.

Very truly yours,

Sopt. 4th.

P. D. Dyor, Esq.

St. Jemos Notol,

springfield, Ohio.

Donr Sirt-

I have your letter of the let. inst.

It sooms pocular that the towns mentioned by you should

hg dend toyns.

Shall be glad to hear of the progress of your canvass

in Springfiold.

Alexander more

89

Edison Electric Thismastine C. .

lawronee, Smar.

Some Sirt-

I me in remain of your favor of your crass, and in really would may that on Theold telephoned to benymment a seprement, but they must have omitted to may informed you of the fact.

to shall commone the shipment of taben in about three tars, and shall start lagare then as soon as a sulfletent masher as soon me a sulfletent masher as so been research as laurence to start the non-on-

Vory truly yours

3

Sopt. 4th.

P. S. Shaw, Esq.

Williamsport, Ponna.

Dear Sir:-

7 mg just in receipt of your telegram of to-day in reference to estimates for Williamport and Bellerente.

We are pushing those to the utwest and hope to send them early next week.

Very truly yours,

Zak

Sept. 4th.

E. H. Dord, Enq. Trans.

Edison Electric Thuminating Co.

laurones, Hass.

"Door Bart-

T have your letter of the lat. Inst, and in reply would be to state that I will retain the temporary fixtures.

T regret exceedingly the delay that has occurred in finishing the lawrence Station.

to will commonen shipping tubes this week, and work will be proceeded with as quickly as possible.

Vory truly yours,

31

Sont. 4th. 1884.

Spencer Bordon, Esq.

F. C. Box 3321,

Boston, Hass.

Dour Sirt-

Referring to your favor of the 1st. Inst, I am oblined to you for the assistance you offer.

We have, however, obtained in Soldan(formerly in Clarkes assistant) as somerancement of the Worls.

an insull has not the Militor of the accounts in hund, and has had an expert working on those for a week. I am glad, however, to say that there is nothing wrong with them.

Very truly yours,

9.

Sept. 4th. 1883.

Charles Batchelor, Esq.

Paris, Franco.

sy Dear Batchelor:-

Yours of the 20th, came duly to hand,

You will have received a latter, subsequent to mine of the 4th, ulto, which will rully explain matters at the Edison Suching Works.

What I referres to shoul you were ever here was that in Edison had given bomin a 7 per cont interest in certain work, by which bom made about \$9,000. or \$10,000. The centract work of this shop, which I referred to, is the piece work, on which the same have binded a very great deal of money. So far we have been unable to find out whether bean had any arrangement with his men by which the got a share of this money. However, we had sufficient other matters to show Edison that it was necessary to give boun the "G.S."

I may say that I have obtained a release from Dean, by which the amount still due him of the arrangement Edison made with him Is whood out. We save 57, Com, by this release, which will go "In a slight measure towards what the Edison Muchine Works has light by Donn's dishonesty.

You will see that there is no necessity to have Edison the the advise to take strendous measures, mentioned in the latter and of your letter. He had already taken the advice before your

Sept. 4th. 1663.

....

in kninger i

3

George H. Blans, Esq. General Burs.

Ghacago, 711s.

Doar Sar:-

I have your letter of August Seth, with enclosure from SE A. I. Smith, in relation to the inaccuracies in the blue print of Appleton.

will you planse ask the President to make the corrections he speaks of on the many

I would suppose that you should not buy a lot until you first consumments with us and sive as an experimenty to calculate whether it would be a good position for our control station, as you might jurchase a lot watch would raise the cost of the conductors to a very high figure, owing to its location.

Will you please herry forward the information asked for about bound lots on August 19th., also send us a map or Appleton as soon as possible.

Vory truly yours,

Zak.

Sout. 4th

Stokeor Burden, Car.

F. C. Box 3-331.

Foston, Bass.

Door Sirt-

I have your losser of the les, September,

As you desire it, we will leave all matters in connection with the varion at hall diver to yourself. The should wire for a 200 ona leap, and in places where there are 100 lights and over, you should but in two suparate systems, so that we can take our-rent off from both the A and it side of the three ware systems.

Very truly yours.

Jak.

Sept. 4t

3

Charles Batchelor, Esq.

Paris, Franco.

Dear Sir:-

I have your favor of the 20th, and in reply to made would may that the scener you can loave Paris the better.
There is planty of work here to do and very few of us to do it.

I am going to write to the Parts Company offering them lamp's at lower prices.

Yory truly yours

Jak

365 Tr. 1

Mosers. Bormann & Co.

293 Avonue B. Caty.

Door Sirs:-

I am in receipt of a letter from bir satchelor, under date of August 7th, in which he states that he has reveryed a bill for six are lights complete with globes and carbons, value 82-40. 1/320 .

. He wishes to know in these are Un nesestare lights, and says if they are, it was understood between Mr. Mavarre and himself that these lames would be sent as experimental ones, and he was not oxtected to pay anything for them.

Please let me know what I shall say in answer to Hr. Batchelor.

Sept. 4th.

3

P. B. Shaw, Req.

Williamsport i enna

Doar Sir:-

Mall you ploase hurry forward the information in Yelforenes to lots at lock haven and Romove, wont you about August 10th

Mould it not be possible for us to got information of this nature in a shorter time? " It soums to be that a month is a good while to here, a may, in order to give the information we ask for.

Very truly yours

Jak.

Sopt. dt

P. B. Shaw. Esq.

illiamstort, ronna,

Dear Sir:-

1 have your latter by August Blac, in reference to astimute for Williamsport.

Who electrical determination for this place is now bearn made and the estimate will he bont you in a very short take.

Very truly yours,

Tak.

3

A. Stuart, Esq. Socty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Bear Sirt-

on August 10th. I sent you blue prints or hamilton and convectown, and on the lith. a blue print or Vashington C.H., asking information in relation to lots. On the Eard, of August I again wrote you asking you to havey this information, as we were waiting for it and could do howhing until it arrayed.

Up to this grating it has not come to hand, and I as under the impression that some delay has occurred with which you are unacquainted. Will you kindly look the matter up, and have those maps, with all the impersation on them, forwarded to me at the carliest possible measure, as we can do nothing towards getting out an estimate until we receive this information.

Yory truly yours.

Jak

Sept. 5th.

Messrs, Hale & Walcott,

30 Court Stroot,

Roston, Hass.

Door Sars;-

Your lotten of August 20th, addressed to me averener.

P. Lowrey, has been referred to me, and an reply T beg to state that I have heard nothing from Anders. If you will rever the commission to me T will see that Wilton F. Admen deposition is taken.

Vory truly your

Sopt. 5th. 1888

Gustave Soldan, Esq. Supt.

Edison Gachine Works;

104 Goorck Street, City.

Dear Sir;-

wall you planno have propared and sont to me a statement showing the number of areastures you have on hand, what
machings they are for and whether class A or by X also want the
Tist of unfilled orders, or which you should knop a copy.

Very truly yours,

:3

A. Stuart, Esq. Secty.

Ohio Edison Clostric Installation co

Cincinnati, Chic.

Doar 11:

Those to asknowledge receipt of your favor of September

In reference to an estimate for a 1000 light plant, it is impossible for us to into an estimate on a plant of that size, as we have no tipe of diname or estimate that will answer. We can send you an estimate for an 100 light plant or a 1000 light plant. If you will let us know which one or those will be best suited to your purpose we will have it forwarded to you at once.

Trusting that your offerts in regard to Fiqua will be successful, I am,

Yours very truly,

Jak

Greenfield, Esq.

2888 Avenue B. City.

Dear Sir:-

established and use noon as consequently now that on Blackwells Island, Wards Island and Bandall Island.

:

Frank S. Marr. Esq. Troas.

Edison Electric Illuminating Co.

Sunbury, Ponna,

Door Sir:-

Mill you be kind enough to lot me have a statement showing the number of consumers of electric light in Sunbury, also the amount of their monthly bills?

I would also like a statement or the monthly expenses or the Sunbury central station.

I would been to remaind you that we are stall without a check for the balance due upon our contract, (85,498.)

Very truly yours,

Iak.

Soutember 5th.

F. J. Sprague, Esq.

Notel Belmont,

Brockton, . : nos.

Doar Sir:-

I have your letter of September 4th, and in reply would say that I have ordered the wire, blow pipe and rubber turing to be forwarded to you at once.

Thereforence to solder, the can y u not get this at some local store and charge it up in your expenses?

They order on Priosi to ship you the insulating tape

I also have your softeness of this morning, and have forwarded by express a blank chart of Fall River.

As regards inside ciring, I telegraphed you this morning that we were attending to this ourselves.

. Very traly yours,

Tate,

. .

Fig. Compbell, Esq.

Ronovo, Ponna.

Door Sir:-

I was presented this morning with a draft for \$50., drawn by you at Bellofente, Fa.

I was under the impression that I explained to you one overning in the effice here that it was only under exceptional circumstances that I allowed may of my characters or other travelling employees to draw upon Me for themey, owing to the confusion which these drafts cause in the effice, even when drawn at one day's sight. I only extend this privilege when there is Me with money.

If you were to send me your expense account with a little regularity, it would enable no to have a better idea of how your finances stand. I have only received one expense account from you since you started out. These statements should be made to me on the 7th, 14th, 21st. and 20th. day of each mouth, and I that in future I will receive them from you in this order, and that you will make no more drufts, except when directly afternized to do me.

Very truly yours,

3

P. B. Shaw, Esq.

Villiamsport, : onms. Dear Sir:-

Tai in receipt of your favor of the 5th, inst, in reference to the master of lights at lock Eaven and Renovo.

The actual member of lights devend by our district in lock wayon is 1,600 and in Senera 730 lights. I would therefore put a 1,000 light plant in the foreign place and a 300 light plant in the latter.

Vory Truly yours

Tolly

Sept. 6th. 1683.

The Edison Company for Is lated Lighting,

Go Pifth Avenue, Gasy.

boar sire:- -

Recomming to your requisition 1,1828, under date of soptember ith, asking is to require one "He areature from the Boston "Herald", I beg to inform you that this areature has its shaft journal on the pulley said budly out, and it will necessitate turning off, and consequently the bearing boxes now in the machines will not be available. It will therefore be necessary for its to make a new box for the journal, and I shall be glid to know if I have your authority for going shoul with this work.

Yours truly.

2,1

Set t. 6th. 1863.

Gustave Soldan, Esq Supt.

Edison Haching Works,

104 Goerck Street, City

Doar Sir:-

I am in receipt this morning of a latter from the Genoral Panager of the Isolated Compuny stabile that the armature sent to Baltimore proved to be too short for that mechane, and will have to be returned. The pillar blocks, containing the phospher brouse bearings, will also be returned.

I believe for sont four pounds of Habbitt metal and two mots of Bubbittboarings, for which you had no requisition.

Was there any other material sent not covered by an

order?

Yours truly

Sopt. 6th

à .

P. B. Shaw, Esq.

Williamsport, Jenna.

Doar Sir:

I box to acknowledge the receipt of your favor of the inst, and in reply would say that I will do all that I possibly can to send you the estimate for Bellefonte on Saturday morning.

Williamsport & now boils determined, and it cannot be returned from broad ten, where I had to send it, and an estimate made out and forwarded to you before either Menday or Tuesday, but you can rest assured that I will do all in my power to Turther the work.

Yory truly yours.

Tag.

Sont, Gth.

Moners, Babcock & Wilcox

30 Courtlandt Street, Gity.

Door Sirs:-

Enclosed please find agreement in reference to our

Very truly Jours,

Enclosure.

Sept. 7th. 1883.

J. Nutchinson, Esq

016,

Dear Sir:-

I bent to give you the following inconsistion which you asked for in reference to the 25 light dynamic-

The height from the floor is 35 2 inches, size of bedplate 31 x 17 2 inches, the puller is 3 inches in dissect, with 4 inch fage, and the armature makes 1900 revolutions per minute. Yory truly yours.

1

Sopt. 7th.

Honry A. Clarke, Esq.

5 Hoon Building.

Halltamore. Hd

Door Sir:

I see to emplose you horougth three estimates for fire 1800, 2400 and 3200 lights, and assembling to 837, 271.36,

In making these estimates I have spained by meaning to reduce our figures to the lovest possible studiard. I wish, however, to specially stipulate that in the case of each estimate our bid for the street installation is based upon the assumption that your despeny will obtain for us the necessary permits to run our maths and fooders according to the red lines shown in Exhibits and I. Some you under separate cover.

Referring to our estimate for 1600 and 2400 lights, you will notice that the street installation (1706 a capacity of 3001 lights, and in both these cases the station is no arranged as to allow you to at any time increased your capacity to 3200 lights.

You will notice in EMMER'S A that our mains stop on the north side of Twelfth Stroot, Between Tassarras and Peach Stroots.

In our estimate for 18200 lights the street installation
cannot be of a capacity for 3011 lights, in accordance with the rad
lines shown on the may marked Exhibit B.

I would drain call your attention to the matter of permits, in accordance with the red lines shown on our exhibits. Should you fail to obtain any of these, and by this means cause any additional expense, it would be necessary for us to charge your company with it.

Trusting that these Will boot your requirements, I um,

Sept. 7th.

F. J. Spraguo, Esq.

Hotel Belliont,

Brockton, Bass.

Door Sir:

Enclosed please find man of Belleronte, Pa, which re-

dures a new determination according to the red lines.

I also enclose all your in reference to that

Very truly yours,

Eneldeuro

. Topt. 7th

Charles T. Bushes, Esq.

U. S. Hosel,

sowburgh, H. Y

Door Sirt-

I ben to acknowledge the receipt of your rayer of the Sth. inst, and in reply would say that plot 16.2, west of Bentmany Street and north of Third Street, is the most desirable location for our contral station. You state in our letter, however, that these lots are on the side of a hill. I should like to know if the supposed of rock which would require blagting of whether excavation could be made with pick and showely you might find out from some local contractor what he would the charge per cubat the reduct of the layed of the street.

Please let me have this information at the darliest possible mement, so that I can be about With the estimate.

You truly yours,

Tak

S. B. Eaton, Esq. Prest.

Edigon Electric Light Co.

City.

Doar Sir:-

contract and your asking by opinion as to the deceptance of the proposition of the Utica largetors to make a contract with me to put up the plant there for \$27,000, the balance of my estimate (about 30,000) to be paid by the light Company, I wish to place on record my objection to this course being pursued in view of the fact that you propose braining the matter before the Executive Community for first solutionant.

The proposed arrangement would be a good one for the "Construction Repartment", but a very objectionable one, in my opinion, for the Light Company to accopt!

I consider it far better to allow the Utica Company to fall through, rather than have the Light Company accept such a proposal which would most certainly projudice their future business, whereas the mailure to close the Utica contract this Fall would have, under the worst circuastances, but a temperary effect on our business.

Yours truly

Sopt. 7th.

. 3

Thomas A. Edison, Esq.

65 Fifth Avenue, City.

· Door Sirt-

I shall be glad if you can make it convenient to attend a mosting of the Board of Wirestors of the Edison Telephone Company of Europe, to be held at the office of measure R. L. Cutting & Co., 10 william Street, at 1 F.M. on Tuenday the 11th. September.

The purpose of the Eddfing is to consider the arrangements with Col. George E. Courand and the Edison-Gover-Ball Tolephone Colpany of Europe.

C61. Courand is now in the City and will attend the meeting and explain the state of the Company's business.

Yory truly yours,

Prosident

Edison Telephone Co., of Europe

Sout, 6th

.3

A. A. Cowles, Esq. Secty.

Ansonia brass & Copper Co.

19 Cliff Street, City.

Doar Sir:-

Would it be possible for you to furnish us with some of the cable for inside house string, as per the last sample you sent us? We want some very body to use in connection with our central station work, and would like to have it if possible before you shat down.

We require about 750 lbs. of No. 15, about 300 lbs. of No. 18, about 300 lbs. of No. 14 and about 200 lbs. of No. 12.

Very
We shall doubtloss need a good donl sarre of that shortly.

Will you please lot us know by bearer what you can do in relation to the matter?

Yory truly yours,

Jag

Sont. 8th.

.

Spenicer Bordon, . Esq.

P. O. Box, 3311,

Fostoh, Has:

"Donr Sir:-

in han to acknowledge the receipt of your favor of the sthe inst, in reference to Bean.

Transpuel as you have sont non to trouble further of in Carrason, we prosume there is no need to trouble further about the matter.

Yory truly your

Tale

Sopt. Utl

A. Stuart, Esc. Socty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Door Sir:-

To have your letter of the 5th. September.

We have no 1000 light plants (unit), and we cannot very well gays you an estimate for a 1000 light plant at present.

We think it would be a fatal error on your part not to make provision for future increase, as if you pursue that course the expense of extending your plant will be considerably heavier, than if you gut a plant in new with the intention of increasing it later on.

Yory trul/ yours

Tak

3

A. Stuart, Esq. Mosty.

Ohio Edison Electric Installation co.

Cincinnati, Chic.

Door Sir!-

We have your letter of the ith. September, with relation to our prices which you torm very high.

You are entirely in error with reference to our prices and one with the salected on hollers and one was the large tried error/poillor, and find that the salected a wilcox holler is the only one suitable to our business. It would be absolutely impossible fordyou to purchase it for the race you mention. "Ordinary return flue beiler are entirely unclose to us.

with relation to omethos, we had considerable experience "Alth different classes of engines, when we first started our busimoss, and as the result adopted the Avaington & Sims engine, which, considering the results obtained from it, is by for the chougest in the market.

Very truly yours.

Sopt. bth.

F. J. Sprague, Esq

Hotel Bolmont.

Brockton, Bass.

Don' Sir:

We ber to acknowledge the receipt of your favor of September 3th., and are obliged for the suggestions contained therein.

With relation to anything in connection with the station, whother it is includ wiring, automatic regulators or anything else, we wish you would be kind enough to make suggestions to this effice only, Anamauch as you were sent to breaken to station, in which you authority to deal with other work. We would much prefer that you should discuss matters butsideed your province with us and not with Mr darrison or any other worken gon-times with us and not with Mr darrison or any other worken gon-times with your yaluable experience may lead you to make, and should you think it desirable for any information to be communicated to the Garrison, if you will inform us of it, we will have it that from here. We shall esteen it a favor if you will pay particular attention to the above instructions.

As regards inside wiring, as Mr Carrison has taken upon himself the responsibility of ordering son from Boston to do this work, there is no necessity for us to deal further with the sub-

In relation to the matter of men to assist you in wiring the station, we do not see the advisability of going either to "New York or Besten to find them. We think one man would be able to give you all the assistance you will require. You could break in" a local carpenter in a short time, and thus save a great deal of unmocessary expense. Then let Androve was starting the Sunbury contral station, he only required one had to assist him, and we prosume that you can work with bifulat occording.

CHAPTS. We note Your remarks about forwarding you clean charts, and will in the future see that your vishes are complied with.

fail to understand your remarks in reference to auto-

the are certain that we have endored all the switches to exist ches. We are certain that we have endored all the switches necessary for brock ten, and (for your information) we have ordered as follows:-

I Proper Switches, 10 now style house changing switches, I now style plug switches, 10 small plug switches, 3 dynamic changing switches, 0 small plug switches for lightning protector, a fund when

Sopt. Btl

4 Mo. 600 plus switches, 2 inch. and 1 double dyname changing switch of new design. The bank of test lumps requires 2 large plus switches and 10 mail plus switches of different design. These switches were evidenced on an Andrews experience at Sunbury.

It is our desired to Way's uniform electrical connections for all our stations, and if you are unacquainted with the fixtures which I have decided upon, and which experience has proved to us to be the best for our business, we shall be very glad to give you what information you want at any time you may ask for it.

Is the broakdown switch you refer to the one designed by in Androws (the bruble spraine Changing writer)

We wired you list hight requesting you to send two determinations of Wall River, and stating that we had ordered all the wire which you wanted. I am notified this morning, by the Western Union Telegraph Company, that you left Brockton last hight for New York, and that western is undelivered. I presume, however, all there is some matched in the matter.

We wish you would very kindly boar in mind the remarks
we have made in reference to suppost tons. We are only too glad
to receive ideas from any source whatever, as longues their flow
is differed to this office, but we particularly wish to reserve to

1883-09-08

ourselyes the privilege of distributing those ideas among people only indirectly connected with our business, as the improper use of them may caule us very serious inconvenience.

Yory truly yours,

JA,EJ

- 3

W. S. Androws, Esq.

Sharokin, Ponna

Dear Sir;-

Y beg to acknowledge the receipt of your favor of the Ath. inst, and note what you say in reference to the Sunbury engineer and meterman.

I am having printed copies made of the dynamo questions and answers and "instructions", and will some you copies as seen as I receive them from the hands of the printer.

Vory truly yours

Jak.

Sopt.Eth. . .

Charles Datchelor, Esq.

Paris, Franco.

My Doar Batcholor;-

I have your letter or August 7th, and have been obliged to delay answering it in order to obtain information from MnyNormann in reference to are lights.

That gentlesses sugar that he received an order for those large from you erally, and that he only known you in the mister, but if the mayare wishes to have the charge transferred to him, he thorograph will do so. The large referred to are in Moses patent.

Regarding dynamor, our "IP machine gives 400 ampores;
we are winding with larger wire and will get free 450 to 37;
ampores easy without any other change. We are running, with perfect success at louisville, 14 "IP machines, with a constant load

You can tell Bailey that, taking in costs, we will discount Hopkinson and go him ton per cent better on anything he can

Yours very truly

Ĵ.

Sept. 8th

h.

Goorge S. Ladd, Esq.

222 Sansome Stroot,

San Francisco, Cal.

"Doar Sir:-

I have your favor of August 30th, and in reply best to state that nicked as a conductor is seven times were at the copper and four times more expensive. MrBurbage has no authority from us to make a statement that a nickel mine would be of great value to for electrical and telegraphic purposes and that it is superior to copper as a condustor, as such is not the case.

The instructions for canvassing towns in the interest of

Very truly yours,

Tak,

Sopt. btl

3

Societo d' Appareillago Electrique, Genava, Switzerland.

Dear Sirst-

Noferring to my contracts with meanrs. Blodormann, swittendaming the pulse with reference to the introduction of my system of electric lighting into Switterland, Thereby accept and ratify Article Seventh of the Statutes of your Company concerning the transfer consented to and accepted for the price of 145,000 france, and I also accept and ratify the rest of the Statutes of your Company.

Yory truly yours,

Sont. 9tl

3

Mossro. Bergmann & Co.

292 Avenue B, dity

Dear Sirs;-

Please send me by bearer ten (10) copies of your estalogue and give me your best rate of discount for our Swiss Conpany. They are at present buying their material from the London Company, and I have no doubt but what I can not their trade for you if you will put your discounts an high as possible.

Vory 'truly yourn

Jaky



2l, St.

Sent 700

A. Achard, Esq. Prest.

Societe d'Appareillage Electrique,

deneva, Switzerland.

Doar Sir:-

Referring to my lotter to you of this date giving prices, since I wrote that letter I have received from downs. Refragamin & No. the following:-

and will agree to furnish goods in our catalogue to them at thirty (30) per cent discount, excepting cockets, cut-outs and switches, on these, as an extra inducament, we will make the discount thirty two and one half (32 2) per cent.

Those prices are better than Bessie, Bergmann & Co. have over quoted to anybody, and I trust that they will prove acceptable to you.

The above cancels that part of my former letter which refers to wester, hormann & to's discount as being twenty five (29) her cont.

Mosers, Bornsann & Co. ship goods charging for boxing and cartage on same, but this is a very mail amount.

I would suggest that you prepare a tolegraph code for use between your company and mysulf.

Anything that you may require from hereI shall be glad to attend to the shirment of, and in fact would suggest that all orders should be sent to be and hayments made to me, in order to evold confusion and to insgre your getting exactly what you require.

ory truly yours,

Ja.E.



A. Achard, Euq. Brets.

Societe d'Appareillage Sloctrique, Coneva, Switzerland,

Doer Sir :-

I have received your various letters as to the formation of your contant, and have recently received from my Attorney, Mr. coddard, a full report on the matter, which enables me to reply to the various questions raised by you.

Pirst, as to material. Within the last few menths we have made a great many changed in connection with the construction of our dyname machines with a view to increasing their capacity for a given investment, and in many cases in increasing the capacity and reducing anginvestment. We have so far turned out a 400 light machine, which we are prepared to sell to you for \$1,500., V.O.B., New York, and also a 100 light machine, for which we should charge you \$400., V.O.B., New York. At the present time we are about constructing a number of 23 light machines.

50 light machines, 300 light machines and 300 light machines. At this writing it is impossible for me to give you the exact prices of these machines, but immediately our work on them is

advanced sufficiently, I will send you quotations for your guid-With relation to the two machines first referred to, I have ordered for you detailed drawings of same, which will be sent forward at the earliest possible moment.

It has been quite impossible for me to write you earlier on this matter, owing to the fact that at ahe came you applied for information, we the construction of our dynamos was in a state of transcission from one style to another, and the data at our command was not sufficient to be of any material assistance to

fith relation to Sockets, electroliers and other sundries, I send you by this mail, under separate cover ton copies of Mossrs. Borgmann & Co's catalogue, which will give you exactly the information you ask for. The prices quoted are subject to a discount to you of twenty five (35) per cont, which is the very bost terms given by them to any or our companies.

I also send you, under separate cover, copies of mesers. Armington a sime ongines, for which I bog to quote the following prices W.O.B., New York City:-

9 2 x 12 Engine 3 1,050. 13 x 13 Engino..... 1,600. Ruch of the above engines have one driving pulley on. 13 x 13 engine with a driving pulley each side. \$1,850. 14 2 x 13 engine with driving pulley on 14 2 x 13 ongrno without any driving pullays and arranged for connecting directly with atean dynamo...... With relation to lamps, I bog to quote you prices as follows :-Eight (U) and Sixtoon (16) Candle Imaps. 50 Thirty Two (32) Candle Lamps..... Bifty (50) Candle Lumes..... One Hundred (100) Candle Lamps.......... 1.50 The above prices for lamps are F.O.B., New York, The reasonswe charge sixty cents for ten cendle lam's. is that it is but recently that we have sturted to manufacture thom and the quantities in which we make them are comparatively small and the difficulties of Manufacturing are considerably groater than in the case of the cipht and sixteen candle lames. " I also send you, under separate cover, six(6) complete

sets of our Bulloting, from Bulletin No.8, those coming before

that number being out of print.

I further sond you six (d) copies of the catalogue of our Isolated Company, and also six (d) copies of a small pumphlot on clocking lighting.

I will endeavor to sold you, it the course of a few days, a set of electro-types for your use.

With relation to your conquery as to whether I can have you the right to sell installations in countries where I have no constants to exploit my patents, I beg to inferm you that my continuets are of such a character that I was absolutely procluded from giving you the concession you ask for.

If you will please whyise me of why further information that you may require of me, I will see that it is promptly sent you.

I onclose you herewith reduced photograph of our 400 light machine, which will give you some idea of the construction of same. The 100 light machines are get up in the same style, and immediately I have photographs or them in hand, I will send you copies.

Vory truly yours

Enclusure

Porsonal.

Sopt. loth.

•

Frank H. Mc. Cormack, Esq.

Williamsport, Fonna.

Boar Sir :-

I onclose you herewith two letters of even date, one addressed to the Promotors of the Edison Electric Illuminating Company of Sumbury, and the other addressed to you as President of the Edison Electric Illuminating Company of Sumbury. The latter must not be presented to the Directors of the Sumbury Company, until the Presented to the Directors of the Sumbury company, until the Presented Rays their permission to the arrangement I propose for their consideration.

I soo no prosports of the immediate solidment of my accounts, and I make the properties contained in the two letter's enclosed as the only solution of a difficulty at once embarrassing to the Sunbury Company and annoying to myself, inamsuch as I put in the plant under a centract which load me to look for full payment immediately my work was finished. Understanding from my Socrotary, in Insull, that the directors of the Sunbury Company were willight to account to any fair propisation which would enable the properties of the sunbury company were willight to account to any fair propisation which would enable the properties of the sunbury company of my money or semathing to represent it, I think the officient is the best way of muchally settling the matter.

Zara

[ENCLOSURE]

1883-09-10

opt. 10th.

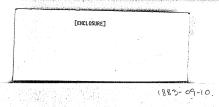
To The Provetors of the Edison Electric Ill. Co. or Sunbary, Sunbary, Penns.

Hoar Sirs:-

Weferring to my Instar to the breakdant of the Sambury Company of own date, I and a the proposition contained in that latter on the condition that the stock to be received by you (an Propositio) from the Salasan Electric light to, shall be allotted to me, or if allotted, thansferred to me in proportion to the amount of stock allotted to me by the Compiny in settlement of my account against them. For example, if it takes three tents (10) (after increasing the stock of the capital stock of the company to enable them to settle my claim, the amount of the remoters shares, I am to receive in addition, shall be three tenths (10) or the total askint of shares of the Sunbury Company received by you as Pounders from the Edison Electric light Co. .

Yory truly yours,

Zal.



Sops. 10th.

. .

Frank H. Mc. Cormick, Esq. President.

Edison Electric Tilluminating Co. of Sunbary,

Walliamsport, Ponna.

Bear Sar;-

I an anxious that the indebtodness of your Company to me (about \$6500.) should be settled fortherth. I beg to propose that the beliance of the above assume, the price to be allowed for said stock being the pur value of the shares. To pay for the beliance remaining after that, your company must increase their capital stock to such an assount as to pay me (in stock) for said belance.

Please have than matter brought before your Airectors and acted on an early an possible.

Vory truly yours,

Lass

Spot. 10th1883.

Gustave Soldan, Esq. Supt.

Edison Wachine Works,

104 Goerck Street, City.

Boar Sirt-

It is very important that I should have tracings of the look light machine and the 400 light machine, so as to enable no to take a number of blue prints of same to send to our various foreign companies. If you can oblige no by getting these out at the carliest possible measure, I shall esteem it a favor.

'Very truly yours,

SI

Sopt. 10th

W. . Bouty, Msq. Prost.

Edison Sloctric II uminating Co.

Shamekan, Fenna.

Door Sir;-

Mindian that the Wife, that I wrote you about, would not be ready in time to impable you to take advantage of it in the first case, I sent a wiresan to Shusekin to start the viring there, so as to impable us to not sufficient lighth on which to hake a Showing show the station it Shamekin in put in operation.

I was very much surprised and somewhat almoyed at rinding that that wiremanniamed have been sent back to now York by you without your communicating with he at all in the matter.

In order that we say he's some lights attacted as Shamekin at the director possible date. I would strapply advise that you sould be Sanbury for a man who is doing the varing there and have him wife up several prominent pulldings to start the work.

It is only a matter or a vory row wooks before we will be able to supply you with a vory much chalper material for wire work, but in the meantame I think that your business would suffer very much in the station was Tort in its present state until that material is ready.

ory truly yours,

P. D. Dyoy, Esq.

London,

boar Mari-

I have your letter of September Oth, dated at Springfield, thio, and in reply bog to say that I do not at all approve of on Stuart's ideas as to how a city should be convessed. If you canvass a city of the size of Springfield for only 1600 lights, if they should ever wint to increase their plant it would necessitate another canvass, while our present style of doing "" business enables us to at any two to make a desired increase in th the maize of a plant with very little additional expense. It will therefore be better for you not to most un stuart's suggestions.

I should like very much to take a trip to the Gincinnati and Louisville Expositions to see our plants in operation. excellent reports from all quarters, and from them judge that we are making a very fine show. Unfortunately, herever, I am so busy that I cannot even run into the country for a few days to rocuperate, netwithstanding the fact that I am vdry nearly "played out" with hard work. I hope, however, that the spell of cold weather, which we are it the present moment enjoying, will have a bracing effect upon my constitution and enable me to lang

one, Arthort toping any holidays.

Yory truly yours,

85

Sopt. 11th.

J. R. Compbell, Enq.

Williamsport! Fonna.

Doar Sari-

I received this morning your leason and map in reference to Remove.

Have the Beneve despiraty, by their charter, the prival we of running wires according to the red lines shown on our
rung. I find that you have not given he that information, and
should like to knew if we can right through private property, and
if there are any obstructions in the way and the nature of them
I wish you would always be careful in sanding reports
upon a town to include this information, as without it is impossible for us to make a proper estimate of the cours of the
attent installation.

Vory tr ly yours.



Sopt. 11th.

A. A. Cowles, Esq. Secty.

19 Cliff Stroot, 'City.

Doar Sir:-

I have your letter of the 10th.

The price numbed by you for the cable seems very high indeed. Cannot you pensibly make it for us for less than 45 ets. per pound? We desire the cable put up in cells. We order by Carminghas guage.

Yory Truly yours,

1883-09-11

Sept. 11th. 1083.

The Edison Co. for (solated highting,

City.

Door Sirs;-

Referring to your ravor of yesterday's dute, it is very uncertain whom we shall be able to take in hand the changing over of the "" and "?" machines. Even if the "" machine is changing into a 100 light machine it will of necessity be a mane expensive machine than the present 100 light machine and by no mount so "mod Tooking."

Yours truly,

Sopt. 11ti

J. F. Bailoy, Esq.

33 Ave do l' opera,

Paris. Proned.

shannour sailoy:-

I have your latter or angust loth, and note what

I do not boliove that your school would be rensible in

that place, but I think that Paris might do.

In reference to the other points in your letter, Major Raton is writing you, emeracing them all.

Vory truly yours,

Jake,

J. D. Rich, Esq.

Hotel Bulmont,

Brockton, Bass

HOMY BATT

I have your latter of Esptember 6th, and have endered for and the glass for the eilers and the gib, which were broken in transit.

I promuse by that this you have received the sm feet of $^{1}\mathrm{S}$ and hubber tube which you asked for.

I think it would be as well for you to obtain office furniture in Brockton, keeping the cost of same under \$1.00.

I do not understand what the oil came are which you ask

T also have your latter of September 1st, enclosing sketch showing the disposal of indicators and switches in the Brockton central station.

Very truly yours,

SL

Sopt. 11th.

Mesars. Bergeann A Co.

202 Avonue B, City.

Donr Sirs:-

Then can you supply un with a ¹4 horse power motor and i ¹8 horse power motor watth connections cusplates. We want to send them to Brockton.

Yory truly yours,

1883-09-11

Sopt. 11th.

N. S . Koith, Esq.

. 41 Jiborty Street, City.

Dear Sir:-

Will you pleam lot no have shipping directions for the plating machine built at the Machine works.

Vory traily yours,

Taky

Sopt. 11th.

G. W. Wilber, Esq.

dorner 4th. & Rodman Sts. Fall River. Hass.

Dear Sir:

I enclose you herewith map of Fall River, and I have enclosed in a red line the district that I want you to carvass fort first. After you have canvassed this district you can go ahoud with the rest of the city, but I want you to take in a larger area than is shown on this map. T believe the city extends consider-"ably further South, North and East than is recorded on the onclused , and if you consider it advisable to go further West, I want you to do so. I am particularly desirous of having this canvass made with all possible despatch, and therefore think it would be better for you not to make it in noo from, but to get it out on sheets, which you can work up every hight and send us the data in the morning, so that we can go right ahead with the map as this information comes to hand and have it completed by the time your canvass is all sent in. I trust that you will do everything in your power to rush this through, as it is imperative that we should have the estimate ready by the 21st. After the map is completed it has to be sent to Brock ton for the electrical determination to be made, and you will therefore see that no time is to be lest

in forwarding your notes.

Please no careful in montioning dwellings to gave the class and it you come across any bridges state whether they are draw bridges or not.

I notice in your canvided of Natick that in some places
you canvass a store for the first time say at U.05 P.N. or later
"and mark it "closed". It would be well for you to find out if
the store closes at J.P.N. or if it remains open until 7 or 7.30.
Yory truly yours.

Sopt.11th.

110110.22011

Hosses, Borgalina A Co.

353 Avenue B. City

Door Sice :-

Term to recent to indicate from in Androva, under which of September 4th, and I ber to quote the following for your unformation:-

"There that herecame is pashin; forward the three majore maters and the pressure indicators, also the double main states to open dyname one by attained volt mater. I shall soon to mailing for the empere maters we. I wrote a letter to me clarke concerning those instruments whiterstay, and I trust that in here many all see that my directions concerning them are married out to be shall have trouble."

in Androvs at the moment is in the city, and vill deliber land will upon you with reference to the above.

Thave this day sont to have Oscar Von Millor, munich, awarks, bill of Indian for one box of practical material shapped by you on the 5th. Last. By the "Non Star" water.

Very Sydly yours,

S,l

Sont. 11th

S. R. Bailey, Esq.

Oxford, Conn

Dear Sir;-

Your favor of the 7th, inst, came to hand yesterday.

With relation to what you have to say about my telephone, all the comment I can make on this is that you are entirely in error. I have never taken advantage of yours or anybody class inventions or suggestions. I see altogether too bany to consider any matters outside of my own inventions, and would therefore suggest that you should patent your ideas and work these out yourself

Vory truly yours

opt. läth.

Frank H. Mc. Cormick, Esq. Prost.

Edison Bloctric Illuminating Co. of Sunbury,

dilliamsport, Penna.

Doar Sir:-

I have your letter of the 5th, list, in reference to

The value of the machinery, together with the building, s is about 50,000., and one per cont would be a fair rate on a Yisk of this character.

Vory truly yours,

Jall

Sopt. 12th

3 -

Philip Richardson, Esq.

| Box 589,

Woburn, bass

"Doar Sir:-

I have your fagor of the 10th, anst, and an really begt to atate that we have changed one of our machines to a plating machine for Mn Feith for metallingical purposes. It gives 0.2 volta pressure and 0.33 ambores of chirrent. The price was \$1,800.

Trusting that this Will have you all the information

you require, I as

Very truly yours

Tab

Sout. 12th.

W. D. Rich, Esq

Hotel Belmont

Brockton, Has

Door Sir!-

I have your letter of the 10th, inst, and in reply would say that I do not understand your statement that there is no midderial at Jawrence to commone work on.

The bodplate and washers for the 14.2 x 13 ongane, together with washers for bolts is said variety. The bolts and papes for both engine, went forward on the Hids value. The bolts and papes for both engines went forward on the Hidsen, which are channer covering was forwarded on the 28th, and bolts for the dynames on the said date! took lamps on the 27th, and with one or twonexceptions. The engine room and mater room sundries have all been despitabled. I have just been notified by Hossrs. Habouck & Wilcox time the boller was shipped the providing, and you can have the 14.2 x 12 and the providing which we will be not by notifying desirs. Writington a Sime to ship it. The steam piping should no forward to-morrow.

I have advised you right along of the chipmont of this material, and I shall be plad to knew if any of it has gone attray, as I have tracers nont got for it immediately.

Sept. 12th

The Electric Tube Complay have already commenced to

I shall be gird to know if there is anything else that you have not recaived which will provent your foing ahead with the work.

As requested, I enclosed by hereful a plan of the lawrence station, and also two bild prints of the underground copducturs. You will recollect that these conductors stop at
Jackson Street, those beyond that showing the extension which the

Very truly yours,

Sept. 12th

Edison Electric Light Co.

london, E. C. England.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the lamp.

Company to quote to you the following prices for lamps ordered In ...

Tota of 10,000:-

13

U candlo lamps...\$.40

16 candle lamps.... .40

10 candlo lamps.... .50

32 candle lasps... .60

50 candle lamps.... 1.00

100 candle lamps ... 1.50

If orders are given in lets of 23,000 lamps and upwards,
we will ship them to you free on board in the Ports of lenden.
Bristor, Liverpool, Clasgow or any other English Port to which
shipping rates are not higher than these to the Port of Lenden.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as these recently billed to you. We regret very much our insbillty to reduce these prices,

. .

but find it impossible to do so, as the lamps referred to are of a special character, and the domand for them is very limited, and the lamp Company manufactures that at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. These quotations are to take offect on all orders sent by you from this date, of and orders are given in lots above mentioned.

Vory truly yours.

Jak.

P.S. If you are prepared to order a candle leages in lets or 10,000 or upwards, we shall be willing to supply them to you at thirty five (33) cents each, and if ordered in lets of 25,000 and upwards, we will ship them to you free on beard to the Ports of Tondon, Bristel, Liverpool, Clasgow or any other English Port to which shipping rates are not higher than those to the Port of London.



Doutscho Edison Cosellschaft,

ud Loipzigor Strasso,

Berlin, Germany,

Door Sirs;-

In view or the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Compan. To quote to you the following prices for lamps ordered in outs of 10,000:-

e candle lamps...s .to

16 candle lamps.... .40

10 candle lamps.... .30

32 candlo lamps.... .00

50 candlo lamps.... 1.00

100 candle lamps ... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on Sourd in the ports of Hambarg, Antworp of Genea.

You will notice in the above that 3d, 30 and 100 candled lamps are quoted at the sume prices as those recently billed to you. We regret very much our inability to reduce these prices

but find it impossible to do so, as the laws referred to are of a special character, and the demand for them is very limited, and the lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices of these launs also. These questions are to take effect on all orders sent by you from this date, if said orders are 12 von in lots above mentioned.

Very truly yours,

Taley

P.S. If you are propored to order a candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) conts each, and if ordered in lots of 35,000 and upwards, we will ship them to you free on board to the Ports of Hamburg, Antwerp or cenes.

h.

A. Schard, Esq. Prest.

Societe d'Appareillage Klectrique,

Coneva. Switzerland.

Dear Sire

Referring to my letters of the loth., I bog to supplement the prices quoted for lamps by the following:-

Tr you wall order from us lumms in lots of 10,000, we will give you the following prices:

8 candle lamps....\$.40

10 candle lamps..... 50

32 candle lamps.... .00

50 candle Jumps.... 1.00

100 candle laps.... 1.50

If you give us an order for 25,000, we will rive you the turther advantage of dailyoring the lamps free up board in the Ports of Hamburg, Antworp of Haves.

Vory truly yours

P.S. If you are propared to order to candle lamps in lots of

1883-09-12

23

10,000 or upwards, we shall be willing to supply them to you at thirty five (%3)conts each, and M ordered in lots of 23,000 and upwards, we will ship them to you free on board in the Ports of Manburg, Antworp or Havre.

tarian da de la companya de la comp La companya de la co

Sopt. 13th

Sociato Electrique Edison,

Paris, France.

Dear Sirs;-

In view of the infrequential in the manufacture, and the increase in the demand for lambs, "I have arranged with the lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

u candle lamps....\$.40

16 candle lamps.......40

10 candlo lomps......50

50 candlo lamps.... 1.00

If orders are given in lets of 25,000 lamps and upwards, we will sain them to you from on board in the Ports of Hamburg.

You will notice in the above that 32, 30 and 100 candle larges are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these purices,

superind it amponsible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the jamp Company manufactures them at a loss. As the demand increases and the methods of habitacture improve, we shall no doubt be able to quote you settly prices on these lamps also. This quotestions are to take offect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

P.S. If you are prepared to order a candle lamps in lots or 10,000 or upwards, we shall be willing to supply them to you at thirty five (33) cents each, and are ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of Remburg, Antwerp or Conca.

Sept. 13th.

P. B. Shaw, Esq.

Williamsport, Ponna

Dear Sir:-

I beg to acknowledge recorpt of your favor of the With.

Inst, and regret to state that it was necessary for us to obtain a
new determination of solicioned, and we were consequently unable
to forward you the estimate on Naturday as presized in the prev-

I will sond you estimates of Williamsport to-morrow of morning for 1900 and 2400 lights.

In reference to Oil City, I presume you are name that
we have as you made no canvass of that place. I suppose, however,
you will notify us when you want this dom?

very truly yours,

Jak

Door Sir!-

I am in receipt of a letter from Mosers, Harris & Robinson, under date of September 11th., asking us to make a carvass of Morwalk, South Morwalk and Waterbury, and shall be glad to know if an have your authority to go ahead and do the worl? Yours truly.

A. Cowles, Esq. Scety.

19 Cliff Street.

Door Sir:-

I bon to acknowledge Feesipt of your favor of the lith. inst, in reference to triple dovered wire, and will sond you this nample that you ask for in a day or so.

Yery truly yours,

Sopt. 13th

W. H. Douty, Esq. Prest.

Shamokin, Penna.

Doar Sir;-

I wared you this afternoon that you should order through the Edigon Electric Light Company, 230 lamps of ten candles each to start on.

In order to explain the following remains for sending this following. I would say that the Tamps have to be ordered through the Tamb Company, as the Edison Lamp Pactory cannot recognize "offices uplace they are received through that Company."

Tall

Sout. 13th.

W P Unton Rea

Harrison, A. J.

Doar Sir:-

I beg to acknowledge receipt of your postal card of the 12th, inst, and in reply would say that Mr. Edison is going to Shamokin on Monday, the 17th, prox.

Vory trul/ /ours,

3

Sopt. 13th.

r. I. Spraguo : Esq.

Motel deligent,

Brock ton, Hass.

Doar Sir;-

In reference to your several communications received during the last few days, I repret to say that Mn Innull, who has those matters in hand, is at the present measure 111 and confined to his bed. No will, however, he in the office again to-morrow or next day, when he will send you she necessary answers.

I have your letter of towing's date giving the size of the colls for the regulator designed by you and have referred a copy of it to harmons s to.

Fory truly yours,

W. D. Rich, Esq.

Notal Helmont.

Brockton, Mass.

Doar Sir:-

I have your letter of Sopt. 19th., and in vol 1/ would say that the parts of the "" dyname which were lest in transit will be sent you immediately. The delay in sending these was caused by the superintendent of the Sachine Works not understanding what you mant by "gib". I showed has your shotch and he more understands what it is that you want.

In reference to all came, please return those yes have on hand at Brockton to John Ott, care Bergmann & Col, 202 Avenue B, New York.

I note your remarks in reference to Lawrence, and I pressure that you can start on Henday to erect the boiler.

I tolographed Samuel J. Koore & Sons than morning to send he a duplicate shipping receipt for the washers and bedple to.

Then I get thin, I will send it to you and you can have the railvey agent at leavence send out tracers for the missing material,
providing it does not arrive in the mountaine.

I will write Mosars. Armington & Sims in reference to the step valveson their 14 2 x 13 engine, and have it made the pro-

per siso.

The Lawrence motors went forward yesterday, and Y thank
the Proceeding actors were shipped at the same time, in any event
you will receive them in a day or two.

Freight bills came to hand "O.K."

Vory truly yours,

Jary

J. R. Campbell, Esq.

Williamsport, Penna.

Doar Sir:-

I have your letter of the 13th, inst., and forwarded to you yesterday morning another chart of Williamsport.

In reference to the Williamsport Company securing themsolves the necessary companions to erect poles on private property, I would state that we much prefer to obtain these permits ourmelyes, but if the Williamsport Company desire that we shall allow
them tomobtain the remaits, we will do so, but simply stipulate
that our bid for the street installation will ally hold good
providing the concessions are obtained in accordance with the lines
shown on our exhibits.

Enclosed find check maker 50 for \$50, to cover your oxponses.

Very truly yours,

Taky

Coorgo F. Blass, Esq. Conoral Supt.

Chicago, Tils!

Done Sie;-

I we informed by a gentleman, who bounded at the Pelher House, this see, that the lights installed in that be aldingspoons troops three times a week. I prosime that you have been unimpare of this fact, and I write this latter in owder that you may have the intter corrected.

Yory truly yours.

Jacy



J. Sprague, Msc.

Notel Belmont.

brockton, Hass.

Doar Sirt-

We have the pleasure to acknowledge your favor of the 6th, inst, which would have been replied to earlier but for circumstances which have interfered to prevent this being done.

AUTOMATIC RECUlator. We do not believe at all in the use of automatic regulators in control stations shalst the regulator is in such a condition. In our opininothe automatic regulator is a necessary evil in isolated plants where there is great yar-Tation number of lamps on at any one time and the variations in spend. Both those difficulties are comparitively everyone in . our control stations, and I much profer hand regulation. With relation to the hand regulator, I enclose you herewith a sketch which will show you the withod in which Mr. Andrews commetted up the regulator at Shawokin, where the same blunder had been made in this connection as the one you now have. You probably can set it right by pursuing the same course as Mr. Andrews did.

With relation to mon, if you find it cheaper and more oconomical to use wiremen, you can of course have them. What we want to do is to have the work done as well and as economical as

2

possible

The connections, such as designed by Mr. Johnson, have been ordered for you and will be shipped immediately they are ready

With relation to the switches, we enclose you herewith a rough skotch of the arrangement of the station at Shamokin

All reference in letters written you have been partly based on the method pursued at Shaqakin.

fill you please see if you have switches to answer for the work at swockton, following generally on the same character of work as that done at Shamokin, and a knowledge of which the enclosed sketches will give you? If you have not we will order such s litches as you may intimate as being requisite. It is our impression, however, that you have all the switches, and in fact several over, except possibly several plug switches for cutting the bank of resistance in and out.

The reference in our letter of the 8th. Sunbury was in error, Shamokin should have been mentioned, as the criticism on switches required by you was based on what had been found to suit the purpose at Shesokin.

Yours truly,
Leeby

Enclosure.

0

F. J. Spraguo, Esq.

Hotal Helmont,

Brockton, Mass.

Doar Sor:-

This will introduce to you in Johnson, when we are sending to breakton to take charge of the wiring of houses under your direction. We desire that in Johnson should are enough houses to make a showing on at the start, and if he requires any assistance, that he should obtain it locally, subject to your approval.

Then I get to Themskin, I will choose a local man, who is to be taught our method of waring. You will of course see that In Johnson follows out generally the plans laid with Mat Sunbary, with relation to inside wire work.

Yours truly,

Jae

Sopt. 14th.

Hotol Helmont,

Brockton, Mass.

"Doar Sir;-

Please impress Apon Mr. Jonk's the fact that we must not gut in any customers the setal of whose lasps will not give us at least two hours and thirty minutes average for 300 days.

If he is going to cut in any one who wats the light, the station will simply be a commercial failure.

The maximum number of lights that a party over burns at any one time, divided by the total lamp hours in 300 days should give not less than 730 hours per lamp. Of course a party may have 50 lamps connected, but nover have more than 10 lighted; if that is the maximum, then these are the lamps to be counted.

Yours truly,

Sout. 15th.

G. P. Lowroy, Esq.

S Broad Stroot, City.

My Dear Mr. Lowroy:-

T onclose your horowith copies of latters to Sir John Lubbock and Thoodore Waterhouse, in reference to the Tusion of the Ediam and Swan Companies in England.

Yory truly yours,

Enclosuro.

Sapt. 15th.

A. A. Gordon, Enq. Snety.

10 Cliff Street, City

Dear Sir:-

In roply to your finder of September 18th., I beg to say that I will upon to the Proposition of the cost of tape.

Reserving cutton for outside grapping, I agree with you all that plain uniform culor will look much better than the "backbor" pole" juttern, and shall we slid if you will choose scrathing that will inserve.

Vory truly yours

1,55

Sept. 17th, 1993.

S. B. Paino, Esq.

P. O. Box, 2011,

· Boston, Bas

Door Sir:-

I have your favor of the 14th, inst, in reference to the brushes on the 400 light dynames.

At the louisville Expansion we have fourteen all dynahos, eight of which carry 400 lights such, and on which we are " usuin the brushes you seem of. I am informed that these brushes work bountifully and the committee polishes. We make all our tests with the brushes you have.

It would be impracticable to use a set of "In brushes on the "In machine. The "In brush is soldered to the trough, while the "I" brush is movable in a shorter trough which is fastened to the brush-holder.

Very truly yours.

So; t. 17th. . .

G. W. Wilbor, Esq.

Corner 4th. & Rodman Sts.

Pall Rivor, Hass.

"Doar Sir;-

"Beforeing to your fiver of the 16th, inst, it would be 'as well for you to mend us a special report on Mall River.

Yary truly yours,

.

Mossrs, Marris & Rubinson,

Room 2, Trust Co's Building,

Hartford, Conn.

Doar Sars:-

Referring to your letter of the 18th, inst., I beg to say that we mean by "Neuco Lights" the number of lights used in a house. It is impossible for a canvassor to get into a house and find out how many lights are burning, but by deciding the character of the house he can make a very accurate estimate.

I send you under nigother cover duplicate mans of Martford, Danbury and Southington, also the Isolated plant books you asked for.

In reference to estimates, we have no available copies at the money which we could send to you, and we are so proceed with work that it would be impossible for us to get them done at once. "I will, however, send you enter a seen as I can get some made."

Very truly yours,

as Firth Aromes.

Now York, Sept. 18th. 1883.

J. U. Mackonzie, Enq.

caro Timo Tolograph co.

Temple Court,

5 Bookman Strout, City

Boar Sir;-

In consequence of the present nature of my business, and many things that I am interested in, I would like to surfender all interest in your transmitter for Empland, yet your reimbursing no any mount that I may have incurred up to this writing in connection with said invention. I am empolled to take this course, owing to my time being so fully compiled, that I feel it is impossible for me to deal with the matter in a manner mutisfractory either to you or myself.

Very truly yours,



Sopt. 18th.

S. B. Raton, Esq. Prest.

Rdison Bloctric Light Co.

City.

Doar Sir:-

T am in receipt of a latter from Mr. Batchelor, and The

"The or dynamos all came to Milan without having the bearing places of the shafts tallowed. They were exapped with paper and then outside of this was some tallow, but not inside. The sea air so rusted them that it took ever two menths to get them to run without heating. They ought to tallow them well and afterwards wrap them with a place of felt that has been dipped into melted tallow.

Armington Engines. The Armington angines came not ontirely together and there were no marks to tell which place boldinged
to each angine.

Invitation . Under the commutator bars we have always put japanned paper instead of sized in the small sizes of dynamos.

I find that in many cases this paper is carbonized and senetimes axen we have noticed nothing with the machine particularly,

23

put mica in thom-now.".

Yours truly,

yale,

Sept. lut

P. J. Sprague, Esq.

Hotel Balmont,

Brockton, Mass.

hoar Sir;-

Enclosed please find map of Southington; which requires an electrical determination, according to the red lines. It is to be all pole lines.

Yours truly

7.a.E.

Sopt. 18th. 1863.

Custave Soldan, Esq. Supt.

104 Goord Street, City.

I am an receipt of a letter from a: Batchelor in which he says that the "of dynamon all arrived at Hilan without having the bearings places of the shifts tallowed. He says they were arapied with paper and outside of this was some tallow, but not inside. The sea air so runted Thom that he says it took him eyer fee to get these to run althout hereing. He says that with the next shipment you could to tallow them well and afterwards "arm these with a piece of feet that has been dipped in medical tallow.

wrinkle on the major the commutator bars what on the analysis of dynamon, the says that they find in many cases this is carbonized and semetimes from they have noticed nothing they are the machine particularly flusing nice in them now.

Yours truly.

Taky

1883.09 -18

Sept. 18th.

Mosors. Armington & Sims,

Providence, R. I.

Door Sirs:

I am in recoipt of a latter from Mr Nateholov in which he states that the Arministen engine arrived 36 Billin not entirely together and there were no highly to tell which piece belonged to each engine.

Will you kindly havo this matter adjusted in future, and oblige,

very truly yours,

Jak,

Sont Tath

Sociato Electrique Edison,

Paris, France,

Doar Sirs

I beg to acknowledge receipt of your favor of the Alst. August in reference to electric railway. In reply I would may that it is impossible for me to take this matter up, as I have too made work on electric light business.

Things are "bouning" here in village and city plants.

Very truly yours,

Zns



Woovers National Retal.

Shanokin, lenna.

My Doar Edison:-

Your tologram came to hand asking for chamicals, motors, scales &c., and the various articles enumerated have been shipped. The motors were kept back purposely: the rest of the articles should have been shipped but for a blunder, which I suppose I must take the gradit for.

Soldan started to took the non light machine yesterday, but found a creas in the armathre, and when I left the works this morning this trouble had not been fixed, but he promises to let me have a report on a partial test this afterneon, but up to this writing it has not yet come to hand. As soon as I get it I will sond it to you.

I saw dowlon to hay in reference to the cable, and he says it is impossible to fitte exactly when they can deliver some of it, and as it is a new thing he is depending entirely upon the factory so to when it will be turned out. If it was an article of ordinary manufacture he could name a time, but says he will push it through as quickly as possible.

1883-09,20

Sept. 20th

,

I was in the control station to-day and Chinned was trying a pair of the new brushes. There was quite some heat from them, and one brush had get burned very badly indeed. When I left, however, the brushes were working a little better, and he was carrying one or 700 lights on the brushes from the district and not from the test lasgs upstairs.

I had a man in here to-day from Pitchburg, Mass. He runs the Thomson-Heuston business and wants to get up Edison Companies in about ten towns. He came on here at the suggestion of Sias, and I think that when you get to Brookton next week you can make a "dicker" with him. I am to see him to-morrow again. he is one of those real live follows, and he would have closed a contract with me on the most. "Of course such difficulties as torms he has get to be talked into."

T hope you are enjoying the bad grub and the "twofors."

T will go to helmonice's to-night and dat a double sized dinner;
so that you can imagine you have had part of it.

I onclose you the Intest emanation of the Engineering Department. Itwis a most beautiful piece of blue printing, and will no doubt go a long way towards changing you on in your

1883-09-20

fonely way in Shamokin.

Yours very crusy

Shamokin

Sont. 30th. 1883

Thomas. A. Edison, Enq.

Teavers Matienal Notel,

Slomokin, Ponnal

By Door Educont-

Sames writing to you this afternion I have seen Soldan, and he says that he has tested the Son light machine. He ran the armiture at 1100 revolutions and get 200 amperes out of it at 113 volts. The armiture was perfectly each at the time he left the shop to come up to see me, and to machine had been running 1 2 hours. He seems highly elated over the result of the test, as he says it has seem out exactly in accordance with his calculations.

Yours vory truly.



Sopt. Alst.

F. J. Spraguo, Esq.

Rotol Belmont,

Brock ton, Unss.

Door Sir;-

Your two very longthy letters of the leth, and 20th,

Tith relation to the extra tubes desired to be laid by in carrison in place of the paid Tries proposed to be put up and provided for in his contract with ne, I have under instructions from in jacks evidend the Tube Coal any to lay 2000 feet of substimining a tree is in Jonks and indicate. I have also ordered from in Krucai, at the instance of in Jonks, 30 longths of two wire agrice tubes for use at Prochem. I understand that these were ordered in your suggestion. In your little of the inthe wore ordered in your suggestion. In your little of the industry of the arthury of the order is described to use mostly three service, but immedia as the order has been placed for two wire service it is impossible to cancel it without considerable loss to the Tube Co. or Mc Marison. I think the matter had botter stand as it is the present time, namely, to use two wire service as mich as together.

The connections devised by Mr. Johnson have been ordered from Hergmann & Go. and will be sent forward to you as quickly as possible. The Pooder safety catches have also been ordered for you and these will be forwarded as quickly as they are turned out. The switches asked for in your letter of the leth, have also been ordered. The feeder indicators are also being pushed forward as quickly as possible and will be sometic you at the earliest moment. The three house changing switches which you refer to were ordered, but the order was subsequently cancelled, and the switch designed by Mr Andrews will take it place.

With relation to lawrence, the first part of my contract, known as Order No.1, and which I am now putting in, calls for two 400 light machines, later on I am to put in two more 400 light machines, the "K" machines which they new have acting as a spare. If they want 300 light machines limit to un lord on this subject by this mail.

Your report of his wiring corruborates what I have heard from other sources. I will go into the question of the switches and wiring equired at Lawrence by you and have the thing fixed up so that you will have no trouble when you come to do the work.

I cannot understand why in one letter you suggest the use of two wire nervice and in the next of three wires. Acting on your first letter as above stated and under Mr. Jonks orders.

we have endered 25 or 30 lengths of two wire services, and propose using the tubes which were sent on for three wiresservices to extend the system as above referred to...

The reason that things are shipped to in hich is that he pays the bills. I should have no you could easily arrange with him what cases you are to open, thankeled, as almost all the stuff that comes from Bargmann wints is for your use.

Exact account alloudd be kept of the time and material used by Johnson in wiring the various houses that he is engaged on.

Vory truly yours,

Tab.

Sopt. 21st. ...

Comitato por la applicazioni dell'ellattricità Sistema Edison,
via Manzoni, 13 A,
Hilan, Italy.

Dear sirs!-

Referring to your several cables and my cables thereto confirmed alsowhere, I beg to inform you that the reason that the 400 ampere dyname (they are known as the "Pr machine) has been ready to ship for sease weeks past. The steamer which should have taken it ran aground on the long taland shore and has only been get off Within the last few days, and it is now discharging its carge preparatory to taking a return carge for the Mediterranean.

Immediately this or an earlier vessel sails, I will advise you of the shipsont of the machine.

with relation to a "6" dynamo. I have several in my shop, practically completed, but it will take he mome forty days to get an Armington engine to attach to one. I therefore cabled you "That I could ship one forty five days after order if there was a stounder sailing, and my price for some would be \$0,250., free on board in New York, laysont to be made here when dyname is completed.

At the request of the Ausenia Brass & Copper Co. I added.

...المالية

tolmy cabbe that they desired typenet for vire ordered by you on shipment in New York orders will sell you the wife at the make price which they queted to the Paris Company, handly, 27 cents per pound, and youn bill will successfully the Arrabide 22, 970. 12 In Consideration of paying coast, in New York, they will hill or you a first sound to the first is presincy the Karrange of the make by the Carrange of the Society Charles of the Society of the Soc

nergiving to your letter of the Ath Reptember, I have ordered the circuit breaker and uprights for you as requested therein. They will be shipped from here in about ten days.

We have now made a now machine giving 100 lights, and which Tahall be glad to seal you in quantities of not less than five (3) for \$400. a machine, F.O.S. New York, payment to be made in New York on presentation of the invoices and hills of lading to Your agents here. We are now making a 25 and 30 light machine and New 2 200 and 300 light machine. Our experiments on those machines are practically completed, and as soon as we have models out we shall be glad to quote private to you for same.

We have written to Mr. The With relation to the new recording ampere meter. We have not turned out any new meters, the this only alteration being a cheapening of the case, which is now made.

made of tin instead of cast iron.

We have ordered for you the 3,000 lamps requested, and they will go forward in the course of a week or so.

Our impression is that your orders should come through the Scalate Electrique Edison, of Paris. Will you please communicate with them on this subject and savise us with relation to

Yours very truly.

Tall

Sopt. Alst.

3

Sociate Minetrique Edison,

Paris, Pranco.

Door Sive:-

Referring to our cable correspondence dissenter confirmed, patent Mo.25 is of the great importance in this country to allow of being dropped in Europe. It covers the fundamental principles of our automatic regulation, and under the circumstances our company here could not give their consent to the dropping of the patent.

Vory Truly fours.

Talf



Sopt. 21st.

Charles Batchelor, Esq.

Paris, Pranco.

Doar Sir:-

With relation to cables confirmed elsewhere, I beg to inform you that the prices given by no for fibres were in accordance with instructions which I had received from the Edison Lamp Co Two or three days later, after talking it over with Mr Upton, it was arranged to quote a lower price. When your letter came to Insul? stating that Upton had given you a price hower than that middined by me or the Lam Pactory, I at once communicated with the Lamp Pactory, and decided, after a consultation with them, to send you the cable above referred to.

As to the drawings for the 25 and 50 light dynamos, although the experiments on these machines have been made, we have not as yet got the models out, this is done drawings shall be soft to you. The drawings of the 100 and 400 light machines wil, "I think, he sent to you by Tuesday's mail. The changes at the "Machine Works have caused now delay in getting out these things, which you must accept as our apology for not sending them to you

orlior.

We yesterday tosted the 300 light machine, which gave 300 ampercy at 112 volts and the armature running at 1100 revolutions. This is a machine with one pair of cores and will be sold for demorphere about \$1,000. We hope to send you drawings in about two weeks, or may be a little carlier.

I cabled for your proxy for a mosting to to vote on the an inerdage of the Gorpany's stack from \$720,000, to \$1,000,000. Thinking that the proxy would not reach how it time I cabled you this meyning to sign a Power of Atternay authorizing me to vote your shares at any meeting of the Eight company, and requesting you to have Consul Valler centing difficultative, so as to enable me to go on your power of Atternay. I shall hope to get your reply to

Very truly yours,

Tall

Sont, 21st.

Deutscho Edison Gosellschaft,

96 Leipziger Strasse.

Berlin, Germany

Doar Sirs:-

Referring to our cable correspondence elsewhere confirmed, I beg to advise you that your cable to me of the 14th. September was unintelligible, and I cabled you to that effect on the same day. I have no cable at this writing and as anxiously awaiting remaint of your letter explaining your desires in relation to 100 light dynamos.

I have ordered for your account a 13 x 11 angines in compliance with your cable to be of the 10th. "I has expecting to send you foundation plans by the next hall, at which time I hope to be able to advise you at what date the engine will be chipped.

With relation to the 25 and 30 light machines, my experiments on these machines have been finished, and I will push forward the models as quickly as possible. Immediately they are ready, I will ship them to you and advise you of same.

Vory truly yours.

Tary

E. H. Lord, Esq. Trons.

Lawrence. liass.

Doar Sir:-

Your postal of the Efth, inst, came to hand this morning.

The small engine, that you have, was to be used to run th the "k" machine now used in your station, and my contract does not call for the providing of an "H" machine for this purpose. I can supply you with two 200 light machines. In the course of about three weeks or a month. Heantine I shall be very gladdto loan you two old "I" dynamos, providing you will pay the freight on same each way. If you decide to use two dynames on the small onging you now have. I presume it will be necessarybfor you to not another pulley, as if your 8 2 x 10 engine is of the same construction as those we ordinarily uso, it has only one pulley on. Will you ploase lot me know your wishes in relation to this matter?

It is very desirable that you should order from us sufficient service tubes to connect the houses, which you are now wiring, on to the mains. Will You please send me a general order to supply those, as I think it would be better to leave it to the Electric Tube Company's ontion as to what they should send to Lawronce for this purpose, so as to obviate the delay consequent

iffor sending an order for each entries that you may require put in.
If you will please attend to this matter immediately it will
greatly facilitate your work, as the services can be laid while
the mains and fooders are being put in. If this source is pursued
the expense will be less than if the services are left until the
whole system is completed.

In Rich writes me that it is desirable that he should put in the foundation for the 14 2 x 13 angine and the two "p" dynamos, which come under order No. 2, at the irosent time, in order to save us expense when filling your second order. I promise there is no objection to our pursuing this course, providing that we carry the expense of this work until such time as you should give us an order to finish the whole of the work specified in our contract. Can you give me any idea as to when you are likely to order the completion of the limit, as I am at present out of "P dynamos, and would like to know when you wim will probably call on me for them for this purpose.

Vory truly yours,

Tal.

P.S. At this writing It is impossible for me to give a firm price for the 200 light machines, but they will probably cost about \$700. each, but xx as to this I cannot tell at the memont.

as I have not got out my models at this writing.

Sopt. 36th

3

Paul D. Dyor, Raq

Empire House,

Akron, Ohio.

Door Sir:-

I have your favor of the setch kinst, and help you will be able to capture the hotel man who has gong wrong on "storage batteries".

on Saturday night last to started up at Shomedin.

In Selson returned this morning and shome very highly of Shomekin

as a place for lighting and the great possibilation of making

money there.

On Monday night we shall start the Browkton station and a wook or two after the Lawrence station. 'So you soo things are programming protty lively up here.

Thope you are feeling better, and would suggest that if you are at all sick that you should slacken up a little on the

very truly yours,

8

ont, 39th.

George W. Eliss, Esq. General Supt. Chicago, Ills.

Doar Sir;-

Referring to your favor of the 17th, inst., which would have had a stention earlier but for my absence from to mat showelf, I beg to state that the gentlemen who reported to no about the Palmer House was a Bivattor of our company for two years, and theroughly understands the difference between an are and an individual tight, and he positively states that our lights recould find, he will distribute a he bearded at that hetel for sixio time, he will have had supple opportunity of knowing exactly what

Yours trully

Tag

7. J. Dull, Esq.

16 Barlot Stroot,

Harrisburgh, Ponna.

T had to lower sharehingto go to Brockton to start a station there. The Shripkin statuen was started on Saturday night AMAT think you had bottor wait about ion days until they got some considers connected and then You hight go up there with your friends and see how the thing runs.

Sopt. 30th.

We ile Wich Rea

care Edison Blodfrie Til. &

. Jawronco, Mass.

Doar Sir:-

Mr. Edison has just retained from Shamakin and reports the starting of the station there in good style. He is very much pleaned with everything there, and says that he looks forward toming Shamakin station being very successful. He maked me to draw your attention to coveral points, which he made a note of while in Shamakin. He says that the dynamous should be leveled to particular will not run to one and. When place principles he thinks you should put an extra cook so that a ruther head 4 inch in dimention can be just on in and taken, so that if the oil cup is taken in the house of the pump should be afterwarded that it can take stoom from their boiler, where more than one boller is used at Shamakin it was only possible for the pump to take their tree one boller.

Yours truly.

Sout ofth.

P. B. Shaw, Dag.

Williamsport, Ponna.

Doar Sir:-

Noterring to your undertaking to dispose of the bonds of the Samuchin Company, I shall be glad to hear from you as to exactly what arrangements you have used for the disposition of those bonds, inassuch as at is my desire to make an immediate settlement with the Shenckin Company.

Yours truly,

Tell

Sept. 33th. 1988).

Guntave Soldan, Esq. Supt.

104 Search Stroot , City.

Boar Sirt-

ortra hele on dynamo bearings an inch or so from the oil cup with a serov plug for passing water to bearings through a floxible tube, and thus render it unnecessary to unserew the oil cup in case it should be thought desirable to use water on the bearings to provent heating.

Yours touly,

Sept. 20th.

Hosars, Bergaann & Co.

202 Avonuo B. Gity

Doar Sirs:-

no not tie a knot in the floxible cordenine de of the notice in future. You have been told of this twice. The support wire attached to the mines in the Ai light meters are too long. I think you should cut off shouts 3 of an anch, but you can find the absolute lingth by testing. The weeden plugs inside meters are jupomed wet and stiel so blut we cause full them out of the model. They glugs should be japanned and dried before jatting

Yours trolly

Zal

Sopt. 39th.

9

J. U. Hackonzio, Esq.

care Time Telegraph Co.

Tomple Court, dity.

Doar Sir:-

Can you give me the recipe for the duplicating ink?

I want to got some made for office use.

Yours truly.

Tal

Sopt. 20th.

3

John P. Rogova & Co.

62 India Square,

Boston, Mass.

Door Sirs :-

I have not get on hand this moment the recipe for making my duplicating ink, but I have written to the assistant who used to make it for me to see if he has get a copy of the recipe. Desentately I hear free him I will communicate with you,

Your lotter has remained unanswared since its receipt, during to my absonce from the City.

Yours truly,

Talp

J. I. Groom, Rag.

Tahoe City, Julo Tahoe,

Placer Co. Cal.

Doar Sir;-

Referring to your inquiry in to motors, I beg to menta that we can furnish you with a motor, but I do not see exactly how you could use it, as you say nothing about where you propose posting your electricity from to run the motor.

Yours truly,

Tall

One Milling

Sopt. 36th

3

Pranklin Fallon, Esq.

115 Wost 5th. Stroot,

Josefville, Gol.

Door Sir;-

Referring to your favor of the 19th, inst., An Edison desires no to state that he has not get a machine which will separate exide of iron due to reasting iron pyrites. His michine only separates magnetise, but undoubtedly such a machine as you desire could be designed if the business promised to be of sufficient magnitude to justify of the work.

Yours truly.

81

Sept. 20th

William F. Browstor, Esq.

Sothern Notel,

St. Louis, No.

Doar Sir:-

Your lotter of the 22rd, inst. come to hand this sorn-

I am vory sorry that I did not soo Captain Poffinger.

I am doing nothing about danvasaing New Orleans. Will you please
find out from Captain Hoffinger exactly what he expects done in the
matter, and let me hear from you of the subject.

I trust that on will be successful in putting through the St. Luius Company. Par sometime passed we have had designismon engaged upon the detailed drawings of the station there, so that immediately the matter is closed up we can proceed with the work.

The Jouisville map is a very heavy one to male, but I am premised it in about five or six Mays, and I shall then want some looked up for control stations.

Nothing has been diffe about Plewellyn Park lately.
I will look the matter up and see that it is pushed.

We can take care of all trouble from water or other causes at Mey Orleans.

Yours truly

Zar

Sout. 30:

3

G. P. Britton, Esq. Socty.

Don't. Public Charities ' Correction,

GG Third Avenue, City.

Doar Sir:-

near is busily assessed in making the plans and estanates for lighting Mart's and Ward's Islands, and we shall hope to have them in , such shape as to be able to send them to you in the course of a few days.

Vary truly yours,

Tak,

Sept. 30th.

Charles Estebolor, Esq.

Paris, Franco.

My Doar Batcholor:-

Your lotter of the lith, came duly to hand.

To cabled to you for \$3,000, because we were in a heart of a box, and hills were on the way equalling that assume.

Since the mensy was received, heleven, we have given the Societe Industrials credit for the every direct on the fibrus, which leaves only about \$200. In their rave which cannot be considered any great resumt; as the second with the other way on my books.

See months at a time.

Very truly vours

Tub

3

Honry A. Clarko, Raq.

Erio, Penna.

Doar Sir;-

Your favor of the list. September has been referred to no for reply.

The estimate for the installation of a sensual station plant at Eric is put in as a whole and is not to be accepted in lots. The tender is made in one research, the items being simply given for come convenience and graduate as to what makes up the estimate. If the Eric Company require any items struck out; I shall be very glad to consider the matter.

It will be quite impossible for me to get to Erio to attend the meeting. When your company is erganized and they are propared to make a contract for the installation of a plant, my private Secretary, Mr. Insull, will go on to close the matter with them, unless it can be done by correspondence.

Vory truly yours.

Las

Sopt. 26th.

S. C. lynch, Mag.

68 Vashington Street,

Chicago, Ulls.

Don't Sir:-

Referring to your favor of deptamber 24th., I shall be very flind to look into the matter of the bersett Conduit, and will talk the matter ever with Mr.J. R. Burdick when he calls to see no.

say

Sopa. Both.

3

G. C. Sims, Esq. Supt.

Armington's Sims Go.

Providence, R.

Doar Sir;-

Mould it not be a good idea to have two extra valves and rings for each of our central stations? If so, would the pistons fit? Now about the gara Rabbit shelves for all engine bearings, concerning which I make to your.

Yours truly

Takop

1883-09-27

Sept. 27th.

H. M. Doubladay, Esq.

Edison Exhibit, Louisville Exposition,

Jouisville, Ey.

Doar Sir;-

. Will you ploans supply me with the information which

Hr Clarkosdosiros in relation to the cards sent by you, returning the cards at the same time.

Yours smuly,

Enclosuro,

3

Charles Satchelor, Esq.

Ivry-sur-Soine, Prance.

Doar Sir;-

I have near you by this mail a set of blue prints of the 100 light manhabe as we are building it at the present time. I sea thinking of using only one pair of cores, and should this change be made I will forward you blue prints of sease. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 (*P) light machine out in the course of two or three days, when I will, send a set of blue prints of these.

Very truly yours,

Tall

٠.,

Compagnio detinontalo Edison, Paris, Franco.

Door Ars:-

Your favor of the 10th, Inst. case duly to hand, and in reply I would be to state that it seems to see that the action of the Russian authorities with regard to set No.2 places your Company in a position to remody in Russia the mistakes which have been made in other countries with regard to this important patent, by discarding the great mass of uninportant matters and confining the case to the points which experience have shown to be of great value. I consider this point to her-

Pirst. The placing of an incandescing conductor in an exhausted chamber made entirely of glass with leading in wires concoaled into the glass, and

Socond. The driving out of the ineandescing conductors of the occluded games by raining said conductor to incandesconce during the operation of exhausting the lump globe.

The specification describes lumps of earbone as well as those of motals, and care should be taken to make it clear that the mixing are intended to be accorded without regard to the material

or which the incumescing conductor is reads. The matter I think should be made the subject of one division. If a second division is decided upon, the meter connections shown in figure 73 should be made the subject of it since. Theoretical that arrangement as the next in importance.

The following should also be covered. The arrangement coll
of a noter shown in a shunt around a definite resistance in the
main line and the use of a compensating resistance in the circuit
with the cell. The meter shown in figure 74 could also be in-

I see nothing further of any considerable importance in the case which could probably be patented in Russia;

Yours very truly,

Taly

Sopt. 37th

T. W. Sorrell, Esq.

. 140 Nassau Street, City.

Doar Sir:-

Referring to your letter of the 20th, inst., will you

"please lat me know white the first account in the Nichelson case is?

ery truly yours,

y and

Sept. 27th.

3.-

Sociate Electrique Edison,

Doar Sirst-

The an in receipt of some favor of the with August, and have cabled the Milus company to send he a cable remittance for \$3,000. to cover the amount of my account against them, loss the four regulators and the Armington & Sins engines. I have not, however, at this writing received any reply, and accordingly cabled you to-day to this effect, as confirmed elsewhere.

I have received from the Milan Company an order for lamps. I think it would consider facilitate matters, and he cortainly a convenience to myself, for all orders of the Milan should come through the medium of your office. Will you please endeavor to arrange this for me, and greatly oblige,

Yours Vary tru

Jak J

Sopt. 37th.

7. L. Garrison, Esq.

b 0. Box 3047

Boston, Gass

Boar Sir:-

He Edison and myself will leave for Brockton on Saturday night, it being Br Edison's intention to start the Brockton station on Honday night.

I propose to return to Nov York on Tuesday, and if you can conveniently arrange matters so that I can bring back with me a check for \$15,000., it will be a cry great convenience to us.

Yory truly yours,

8)

:3



Sont, 37th.

Honry A. Clarke, Esq.

Erie, Fonna.

Door Sirt-

Your letter of the 24th, September has been forwarded to me at the above address.

If you have any enquiries to make about my estimates and will address them here, you will always got a prompt reply.

I stay such a short time in a place that it is solden that you can recton on catching me.

As I wrote you yesterday, the bid made toyyou is made as a whole, and I should hardly feel disposed to have it cut up, although of course I should be glad to consider any proposition that the Rrio Company may have to make. Our experience, however, in doing this has so far been very bad. At Shamekin, where the local Company undertook to do a great deal of the fort themselves, we had a very great deal of trouble, and our Superintendent had to gy there to superintend the work, notwithstanding at was the local company's place to do it. The followy in consequence of the source they pursued was very great, and decided me to refuse to take contracts in the Cuture, unless the whole of the work was left for

Your truly yours.

Zall

Sopt. 28th.

3

Sociote d' Appareillago Electrique, Geneva, Switzerland.

Doar Sive;-

T have sont you by this mail a set of blue prints of the 100 light maghine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of some. This machine is known here as the "To machine.

Thorn to have the drawings of the 400 (40°) light machine out in the course of two or three days, when I will send a set of blue prints of those.

Vory truly yours,

Taky

Sont. 38th.

German Edison Gesellschaft, 96 heipziger Strasse,

Borlin, Gormany.

Door Sive:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I as thinking of using only one paxy of cores, and should this chan change be made. I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 (""") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Vory truly yours,

nt. Bth.

Gosars, Harrin & Robinson,

Room J, Trust Co's Building,

Partford, Conn.

Dear Sirs:-

I have your latter of the 37th, inst., in reference to the Martford and Continueton estimates which I precised to send you on the 30th. Hy engander, We Composil, has been ill for the last four days and as still continue to his bed, and it is impossible for as to tell when he will resume over. His absonce from the offices was the cause of the estimates not having been forwarded to you. I regent the circumstances exceedingly, but as you will see it was a seator ever which I had no control, and I may add was totally unlocked for when I had be pressed to send the estimates to you on the 3th.

I an obliged for the information you give in reference to Bridgeport, and will refer that matter to 3n Butchinson of the Taglated Company.

Varybtruly'yours

Private Secretary

Priend Conkline:-

I so very desirons of obtaining a contract to light one or two of the City Institutions where I am cortain I can affect a considerable saving to the city and give better satisfaction.

Their gas system being empecially deflective on Harts and Maries Telands, for which I have made a tender. Would you object to giving no a letter of introduction to fir frees one of the Commissioners having such lighting in charts with a statement that we are reliable pounds, our statements are to be relied upon and that we will undoubtedly perform our work in a satisfactory manner of course they may be reasons my you would not like to do this, if so all right.

Vory truly yours.

1883.09-29

lept. 39th. A

Charles T. Haghas, Esq.

J. S. Hotal,

Nowburgh, N.7

Donr Sir;-

I regret to say that through the illness of my enganer, in Campbell, who has been off daty for the past throe days, and it being impossible for as to tell when he will again propert at the office, the estimates for to-soungh have been delayed. I set doing my best to not there exist for you and will send then at the carliest possible meant, but with this explanation you will no doubt receiving the directions of area in and the great pressure under which we will have to wird in order to keep pace with our business during the daybell's absence.

Very trilly yours,



S Sopt. 29th.

Paul D. Dyor, Esq.

Empire Nouse.

Akron, Ohio,

Dear Sir:-

I have your favor of the 37th, inst. acknowledging

In reference to the latter, I did not intend to alter the form of four conversing, and you can use there as blank books if you choose, but in sending them to you I thought you would probably be able to utilize them to dvantage by entering the lights on the books first and copying them on to the form afterwards. You can however, plans by ourself.

Very truly yours,

October let

á

Charles T. Hughes, Enq.

W. Hotel,

Newburgh, 11.Y

Doar Sir;

I have your latter of September 20th, in reference to details of billding the central station it Headurgh. Un compbell, my orgineer, who candide the estimate for this building, is still confined to his bad, consequently I am unable to send them. The additional estimates are also being delayed for the same reason but all of them will go forward to you at the carliest possible

Vory truly yours,

Iar,

October 1st. 3

Charles T. Bughes, Esq.

U. S. Hotel,

Newburgh, H.Y.

Door Sir :-

In Risen and En Tashill are both in brocken and will probably not be back until the bridge the week. Campbell is still "laid up", and I have get my hands so full that it is impossible for not to touch the Newburgh estimates, at laust for a day or so. I will do all I possible can to send them to you, but you see the fix I am in and the difficulty of meeting your requirements with the despatch which generally characterizes our business.

Vory truly yours,

October Sad.

Samuel Insull, Esq.

Motel Belmont,

Brockton, Hass

Malgar Insull:-

I have received all your numerous communications, and this morning went down to Bergaman's to see about pressure indicators and noters.

I fand without wiring Androws that he requires eix pressure indicators of the new style or five of the old style, as he took one of the old style with him when he was here. I ascortained this from a letter which arrived a day or two age and which was easeng the bundle you gave me. Flein or somebody down their mixed our meter orders all up, but fortunately I get there before anything serious had concurred. As it is there must be "returned from Brockton one 30 light meter. We sent five a light meter for many to Shamohinand he sent for Willight meters in excessing to their other values of our order to Lawrence. I will have all these returned thought we had mixed our orders up, but upoh alalyzing it there withing to found that they had made the mistake themselves, aid, "consequently, walked into a "shipper".

2

T have seen Bradley this afternoon and he goes to Brogkten to-night. I have given him two hydrometers and he is getting all the tools, necessary for finding out the bugs in the conductors, from Chinneck. He is going to Brockton by rail. The Shamekin hydrometers were sent seen whole ago.

The forming to the formal state of the fooders by Sprague. He stood beauth in while I wrote the orders for insterial which he required, and these were not nontioned. I, however, find that there were only is instead of I2 (as you stated) of the old style feeder switches ordered for irrection, and have consequently ordered 10 of the new style plug switches from Hergmann to be shipped at once.

Thays ordered 100 Johnson commentions in accordance with your letter, and have given proper instructions as to the shipping of 50 of them. Reriganin has on hand at the moment 50 of these connections from the last let ordered. These go forward to lawrence at once.

In reference to test bank invitation, Hergmann told no that those were sent forward with some other material to Sprague's address on Saturday. On Henday I told him to send two more, as They had probably gone astray, although it sooms atrange how they

could have done so. I trust that by this time they have been recovered.

I received your Godsond in the shape of \$3,000, and have had some placed to our credit without meeting any opposition at the bank,

I have had all the baby stuff mached in ice and forwarded to the address you gave me. It will be a "cold day for you" when it gots there.

Referring to the macunt which I placed in the Pall River of this tor "Tools" for repairs to underground conductors", at the time I made up the Pall River estimate I had only one bill from Kruoši for tools sent to Brockton, and I was under the improvation that this included all the tools which had been sent there. I should, however, have looked more clearly into the matter and I would have soon wived I hade the mistake. Can we not supply tools to the amount of our estimate for same, and if they want more they can purchase them? I say this merely as a singlestion to try and help myself out of the semane, but privately my opinion is that we will have to supply the whole lot for about one half the price, and that if is through a desired built of mind that we have got to do it.

I have not yet heard of your closing the Fall Raver contract, but I hope to be made Ware of the fact before going to bed to-night.

Everything here is going on all right and there is nothing special to bring you back if you are not fully prepared to come.

Rughes just came in and says he is going to stay right."

here until he gots the Nowhirgh estimates." I have not had a chance to touch them, and I do not know that I should care shout doing it if I had. Campbell had the matter partly in hand, in fact nearly finished it, and If I take it in hand now it will be necessary for me to go through it right from the start, and my "hands are too full to attempte anything of that kind. I expect "Campbell will be here in a day or two. I wrote to him last hight and fractically told him that he must some soon, "notwithstanding

the advice I gave him towards the end of the letter to the effect that he should not go out of the house until quite well. I tried to convey to him the idea that the heartment could not run very well unless he was there himself in about what he was doing as to enable them to know a little about the business in his absence. As it is now he carries meat of the information which I want to get at, such as details of the construction of the station, in his head.

T will got the bills of lading from Hayward, Porry a

Prancklyn to-night, and boon unable to obtain them before that

All have the money in the bank to-motrow morning.

I am delighted to lion about the success you have not

I will go thoroughly through the Lawrence orders, and "
"see that there are no "hitches" when the time comes for starting
up there.

I onclose two lotters from Mr. S. J. Mc. Cutchen. Upon the arrival of the first one, which is the double paned one, I sent him a note saying that Mr. Milson was in Brockton and giving him Mr. Edison's address. The second one is a reply to my note, "above your signature. I do not know whether they are of any

.,

great importance or not, and as I have no means of I and an I prosume the best thing to do is to send them to you.

Tate.

Telephone - Fareign

Office of the

Edison Tolephone Company of Europe, Limited, Mew York, October 2nd, 1803.

To the Directors of the Edison Telephone Co., of Europe, Limited, Duar Sigs:-

Referring to your letter of September

"Tath, in which you achievise he to settle state colonel coursed on the best tense possible on to the division of the 173,000 shares of the Edison-bover-Bell Telephone Consent of Europe, limited, I have to say that I have "fully discussed the matter with Colonel Coursed with a result that he is not sectified with any other than an equal division for the reason set forth in his letter to this Company, dated July 30th. (Extract Annoxed)

I am myself approache to settling with golongl coursed on that basis, but I find that I am personally interested in some of the sharps that he will requive, arising out of the fact that he and I joinely contributed in the Vale to the Satson-wower hell Telephone tempent of several deshibition which did not belong to the Satson Telephone Company of Europe, Limited, namely, Dommark, "Sweden, Norway and Portunal, and because of this personal interest" I may unwilling to take the responsibility of alone settling with Colonel Gourand as actionized by Jour letter above referred to.

I have therefore to request that you will be seen smooth to sign the enclosed letter, if you approve or said, and return it to me at your early convenience. The

October 2nd.

imal t. Syar, Sad

Apare Fouse,

Altron, Ohio

Door Sar:-

I am in receipt of your several favors of the past yook, and I am sending to your Address twelve now estalogues, and I would impress upon you the measurity of using those very judiciously, as they seek I combs spaces.

in Stuart has been here for the past week obtaining information, and I think we have pastisfied him on a great many points about which he was in doubt, and I have reason to believe that affairs in this will be pushed to more advantage new than they ever have been before.

We are much obliged for the way in with you keep us posted as to the workings of rival companies. I think that the wave you speak of will soon summence relling through this, and we it is already assauling very fair duadrisions in the Mast, and we anticipate to do good work through this in the Spring. It is rather late to decisions work there now, as in a few weeks frest will set in.

Yory truly yours,

AJ,

october and.

P. B. Shaw, Esq.

Williamsport, Johns

Door Sir;-

I main receipt of your favors of the Mith. ulto., one addressed to In Mison and the other to myself.

In reference to the former I would may that we had no such arrangements with in Hallon an you mention. We were to run the station for thirty days after it was ready to supply light; we made no surcents to run it for thirty days after a new wind was supplied. I will, however, attend to this matter when I meet you on the oth, and. I can foreste nothing new to prevent no free looping this engagement.

very kruly yours,

SJ

October 3nd.

A. Stunet, Roy. Socty.

Cincinnati, Ohio

Door Sir:-

I am in receipt of your favor of the Morellato, and have to-day sont you under assigned sover the chart of Haddlatown showing the total member of lights in the district ranked off, the average burning of witch amounts to 1973 lights for four hours and fifty nine minutes.

I also soul to. a form of agreement between ourselven
and the local company. In each case the payments are as follows:

25 of the total assumt of the contract upon the aigning
of the agreement; 36 of sizes when the installation is ready to
supply light, and the resulting the after the installation has
been in condition to supply light for thirty days.

Tousting that this will most with your requirements, I

Vory truly yours.

J J

Englineage

Gatober 2nd.

John R. Campbell, Enq.

care F. B. Shaw,

Williamsport, Panna.

boar Sir;-

I am in receipt of your coveral favors is reference to parmits and concessions for running our lines in Williamsport.

I consider that you made a matchle when you first went to filliamsport in not finding that definately what the idea of the Villiamsport Occupant was in reference to your obtaining those permits. As it is they first decided to obtain them themselves, and after delaying you in Villiamsport reconsidered the matter and allowed you to go should with the work which you were sent there to do. This matter will prove very expensive to us in comparison with what it should have cost had you gotten through with it in a reasonable length of time.

In future it would be well for you to sound local authorities to better advantage than you have done in this case and try '
to obtain their ultimate ideas from the start, as we cannot afford
to allow you to wait in each place an excassive length of time, in
order to allow the companies there to change their minds \$\rho\$ half
a dozen times.

I will send for some Molley either to-morrow or the next

tay, with instructions as to whore you are to go next

ory truly yours,





Thite Plains, N. W.

my Seas Compbell!

T got your talegrow this morning talling us to make allowance for makes in the construction of the Mail River building. Inaggeth as the ground is of rock, we have made allowance for the necessary excavations, and it will havely be possible to drive place through such a substance.

Bughos is still awitating additional astmatos for Rowburgh. Those I am unable to send him as I have not get a map which is properly marked. You will remember that one of the feeders was sub-replaced a certain street and run around towards the top of the map.

Harris a Robinson continue to "Kick" about Southington,
I hope to send these Hartford to herrow.

the Edinon and the thoull are both away and that not be back until the end of the week, and I have no take to propare estimates.

T have got all the plans of the west Shore & Buffalo.

buildings which we are requested to bid for. The Ohio business

ctil remains in abovence.

2

I morely sond you thin to let you know how we are getting about you and to illustrate that your very valuable services are missed. I hope you are much better and that nothing serious has developed in your case, and would impress upon you the advisability of not exempt out of the house too soon, as this is saidtings a fatal mistake made by your follow invalids.

bron no a line and lot he know how you are getting along.
Sincorely yours,

are Fali

Octuber 3rd

.

7. S. Andrews, Enq.

Masional Notal,

Shwaokin, Forma.

Done Sir;

Paterring to your favor of September sith, in reference to pressure indicators, I beg to say that I have ordered forward six of the new style pressure indicators to your address at Shamolin.

Regarding 30 candle power lauge to he has a company want any of these they can obtain them by ordering through the light Company, as you understand all orders for lauge must be submitted through that source.

Yory truly yours,

Si

October 3rd

.

G. C. Sims, Esq. Supt.

caro Amnington & Sins Co

Providence, R. T.

W. Qoar Sins:-

the office has sont you to-day a chock for 31,375., which you will receive by the says mail as this letter. I have also sent to Edison to-day a note for 31,375., dated container 33nd, and running three months, bringing at due on the 33th. December. I have requested Mc Edison to sign it and would to you associately he ages it, and would suggest that you telephone him about claven o'alow to-survey at the Brockton central station, and ask him whether he has sent it to you, and if not, request him to do so immediately. This will insure your getting it.

If you will sond no a momorandum of the cost of the discounting, I will sond you a check for smap.

Vary writy yours,

81

October 3rd, 1883.

Gustav Soldan, Esq. Supt.

104 Sourck Street, Caty.

Door Sirt-

The Electric Tube Company will ship you in a day or two a B tube junction box to be finished. Please push this through with the utmost speed, as the box is for Jawrence and a delay would be very serious.

Yours truly,

Sol

ctubor Ord.

W. S. Androws, Bag.

Showolin, Ponna.

Door Sirt- ..

Your latter of the lat. inst. to En Insull, enclosing statement of account, has been received. I will have the latter checked and advise you as to the Femula.

T received a telegral to-day from Un Insull, who is at Breekton, stating that he had authorized you to draw on us at one day'd sight for alon. This I presume will struighten out your frienders.

The Brockton station was started with great success, and un insull advises no that everything is perfect in connection with the building.

very truly yours,

Da allot



W. H. Dwelloy, Jr., Esq. Troas.

Edison Floctric Illuminating Co.

Pall Rivor, : Mass.

Doar Sir:-

T boy to hand you howeith an estimate for the erection of a central station plant at Fall River, amounting to \$41,900.00.

You will notice in the estimate that I have covered the point requested by you, havely, that the stack should be put in large enough for the boiler capacity required for 4600 lights. I have also established in the estimate that the vater connection is to be taken from the river, in solution to the connection of the station with the street mains.

I further enclose you two copies of an agreement, addy excepted by no as 19: Edison's Power of Atterney, and should be glad if you will return one executed by Nr. Dow, as President, and yourself, as Treasurer, together with a check for 34,180.90, being ten per cent of the assumt of the estimate payable on the centract being signed.

A blue print of Pall River neat you herewith forms
Edifibit A to the centract and the detimate Exhibit N. These two
should be attached to the copy of the centract which you retain.

With reference to the details of the work, the reor thinbers shall be two inches deeper than those at brockton, and planed in compliance with the suggestion of in terms Bordon. The plant will of the same character as that at brockton and the work finished off in the same style.

In the blue print of the central station, which I send you herewith, you will notice that the buildrs and engines xxix have been turned around as suggested by you. The space in the boiler room is suply sufficient to enable us to add two more boil of 140 horse power each, The boilers we now propose to put in are two 73 horse power boilers set in one battery, or, in other words, a double 146 horse power boiler. This is done in order to got a subdivision of the boiler power. Any future extension we would propose installing a single 146 horse power boiler, that is a boiler with one furnace. The total boiler power would then onable you to take care of 3200 lights, then when you require to mako a further extension we would take in another 140 horse power single furnace boiler, which would bring your boiler capacity up to 4600 lights. There is planty of room to do this in the building as at present designed, and the subdivision of boiler power. which you will then have, will be quite sufficient, as with a total plant of 4000 lights you would have what is practically four

distinct boilors to take care of same.

There given the orders to-day for our material, and the sure vall pushed on as vigorously as possible in order to get the installation completed within the shortest possible period.

I will advise you from time to time as to our progress, and will doubtless be able to tell you within a week or ten days the date that we shall consensed Laying our tubes, which is, as you understand, the next troublessme part of the work.

Very bruly yours,

less

Enclosure,

Octuber 3rd.

W. H. Swelley, Jr. Esq. Treas.

Edison Blockric Illuminating Co.

Fall Rivor, Bass.

Door Sir;-

I enclose you herewith a certified copy of my Power of Autorney from in Edison, which it would be as well for you to file in your office, inamuch as the agreement with him is signed by

Vory truly yours,

3

October 3rd

:3

Thomas A. Edison, Esq.

caro W. J. Sonks, Sunagor,

Brockton, Mass.

Barran Edison:-

I enclose you herewith a note for \$1,375, due the 25th, becomber and in favor of the Armington & Sime Company.
Plage sign this and send it to this in the enclosed envelope IMERITATELY you set this. Do not fail to do this, as I precised Sime jesterday that he should have it in order to enable him to meet his payroll, which is due to-morrow or the next day.
I have sent him a check to-day for the arms amount as the note, and the two tegether will settle up our construction Department, account with Armington & Simé for last meeth, in fact will clear up everything with the exception of the large engine chipped to have discussed to that settle that I shall easily be able to take care of the payment of saws.

Vory truly yours,

S

Enclosuro.

October 4th.

Frank H. Mc. Comitch, Enq.

Williamsport, Ponns.

Bear Bir:-

I has to apologise for not having missored zone favor of the luth, Saptember before this.

in Edison and nysolf have found it necessary to be away from low fort so much of late that this, together with some other matters, him entirely enemed attention. I have been employering to go to Sundary and willisuspect for some time past, but up to the promist have found it impracticable. I have, however, hide an engaging with Mr. Show to meet him in Williamsport on Bonday next, the inth, and I will at the sem time to out have the pleasure of meeting for and arranging with you as to the transfer of the stock.

A Overy truly yours,

3

October 4th

:3

non. ness

11. 12 9 g

Sir;-

I have the pleasure to enclose you herewith a letter from the Non. Rescor conding to your good self introducing on Edicon to you.

On Edison is absent from the city at the present tipe, and will not be been until "order" meet, I therefore desired it exvisable to forward this letter to you by the hand of the Rissell.

On Mr. Edison's return, he will doubtless do himself the pleasure of renewing his acquaintance with you.

Very respectfully yours,

Private Secretary,

Enclosure.

October 4th

٠.

onry A. Clark, Esq

Erio, Ponne

Doar Sir:-

I have the plansure to acknowledge the receipt of your favor of the lat. inst., and in reply beg to say that we can complete the work at Eric within sixty days after the signing of the contract. You will no doubt approximate the necessity of cleaning this matter quickly, if it is the intention of the Eric Company to do mything this year, as very soon axis frost will set in and it will be impossible for us to set poles and make other necessary exceptions.

Yary truly yours

J, a, e

Detobor 4th.

C. H. dampbell, Esq.

White Plains, N. Y.

my hour Campbell:-

T have received any answer yot to the letter

I wrote you the other day, and I prefer you have either been too

T got the Rowburgh husingss fixed up with hughes this other than bump Sum bids by Letter Other matters in morning without sonding any other estimates. relation to estimates are still "hanging on", and there is one point which laughos wants vory builty that I am unable to give him. and I wired you about it yesterday, needly, the details of the building. The Newburgh Company desire to have a specification of the building you prepose to erect for the central station, ax in order that they may obtain a bid on away from some local builder, who is appears will take the amount of his contract in stock. Wo should like very week to give this information at the carliest possible homont. The abount you allowed for this structure was 33,100., the building to be of brick. There are no accessible dotail's in the office, and I prosume that you carry this informa tion in your head, just where we tannot get at it. Can you assist us any from where you sit IT hope by this take you are able to mit un). ?

Octuber 4th

25

I made up the Pall River estingto agents. It is for some lights, with street installation exhaulted to dever home the lights, and the sotal meant is billing, m. I allowed for freight and carters with, for divided work abouts the, and about 3073. for the expension of the electrical, noter and engineering experts, while starting the station. The other items were under up in the issual names. This estillate was accounted and the contract closes on about a work, and we are going right about with the work.

I hope you will be able to deen out soon, as things are consumming to "boos", and there are two or three more contracts which it sooms to me we are likely to get before cold weather sets in.

nattore we "tackle" any new work there are a lot of old matters in the office which I should like to get cleaned up and I commot be it without your assistance. When do you think you will be able to come hack means

Trusting that you are rapidly progressing towards con-

Sincorely yours,

acy

Octobor 4th.

A. A. Cowles, Esq. Secty.

Ansonia Brass & Copper Co.

In Cliff Stroot, City

Done Sir:-

I onclose you have sith an order for copier rods to be sent to the Electric Table Company. Those rods are to go in tubes, which will be laid as rall River, under a contract we have with the Edison Electric Tlumination Company of Pall River.

It is very important that this order should be pushed forward as quickly as possible, as we have but a comparitively short time to make up the tubes and get them laid before front comes on. We shall therefore he glad if you will make an extra effort to get them out quickly for us.

r will call down to moving and show you in Edison's contract with the Mall River Company and give you will explanation as to the matter, which I feel sive will be entirely to your satisfaction, we the parties in the crost with us in this matter are of the yory bost.

Yory truly yours,

1. 200

October 4th.

- 3

J. R. Campball, Rsq.

maky Notel,

Williamsport, Penna.

Door Sir:-

in folly bas to state that I did not intuid by letter of the Sad. institute to be interpreted as a consure, I indeavored simply to point out the platake which any one olse, plaged in the seas position, would be limbe to coset. I will see that there are no serve delays as regards sage, and will also have then properly marked perfore somiting than to you.

I send you by this real, under separate door,

T have your telegrad of to-day's date stating the wore general flet to draw at state to provent delay, which this instance in quite satisfactory.

Augh, thall hor

1, a, e,

October 4th.

the second second second

Milligasport, Pouna.

Donr Sir;-

t have your latter of Med Mith, ulto, and in reply bo to state that I will be in villianmout on Hundry next, the lish ingt, where I shall have such pleasure in heating You.

Vory traly yours

2, 3,

. natubo: 4th, 👸

s. A. Edison, Esq.

gard 7. J. Jents, Esq.

twochton, i-ass.

ng Doar Edison:-

chat the telephone matter should be noticed vary. He says that the telephone matter should be noticed vary. He says that he speak to you should the matter of the cover-hell stock, ad and I understand his proposition to be that the cover-hell stock, ad and I understand his proposition to be that the reliphone company of Europe should take half the stock and he take the other half, on account of the countries he paid in under the approach to be a pour and himself. Will you ploase were no instructions in this matter the first slying to-morrow morning, so that I can have the necessary papers propared. If you will authorize no to indictate, with individual, I will and one to help the help the down, as considering the dual capacity you hold as President of the furdecan foliphone. Of party interested both to furdecan to party interested by the tops to party interested to go an good towns for the European Cannot all the your unuses to got as good towns for the European Cannot all passable, as otherwise the matter which look had if brought up arterwards.

I got an order this norming for 15,000 laws for lordin and 2,000 large for londer. The first order is in consequence of our reduction in terms, Moving the good pulses of making the

roduction

I my very sorry that you did not receive that matter from the printers, but you must bloom the extress company and not our office, as it was all sont off Trom here on Tuesday.

Ploase wire me stating absolutely then you will be buck.

J. vant around to soo Mrs. Edison this morning and she sould M considerably better. She is going to neve this afternoon, and the degler has undertaken to accommany her, in ease or any stables. I shall wire you to-might stating mother the moving proved disadvantageous to Mor of Table.

I have the honor to be (a la Anglaise), Sir,

Your most obedient and Paithful Sarvage

8)

Addisonation of St. St. December 2

Detubor 3th.

100

John P. Smith, Esq.

143 East 33rd, Stroot, City,

Door Sir:-

be gird if you will soo to the watching of mass, and prevent your bill at the above address each month.

Taly,

. .

1883-10-05

October 5th.

.

Priond Beach :-

I send you herewith an interesting article suitable for your columns on "Stirage Unitaries" written by Mr. Sponcer Bordon of Pall River, who sent it to me and asked my opinion.

I think it a very correct article and thought possibly

Vory truly yours,

Tak,

ctober 5th.

arles Batchelor, Esq.

Paris, Franco.

Doar Sir:-

Referring to a cable confirmed elsewhere, I bed to inferry yea that I wired you with relation to the Armangton at the requests of Gov. Heaven and Mr. Mans.

They do not uniteristand may you are unable to deal with draington, and if your people are fabilly anxious to get the envine, I can make Tayorable torus here.

Vory truly yours, .

Jak

1883-10-05

October 5th.

J. U. Mackonzie, Esq.

466 Vandorbilt Avonue,

Brooklyn, N.Y.

Doar Sir;-

I wrote you semetime ago asking for the recipe for the duplicating ink which we used to make up at Menle. I have not at this writing received the same, and if you will again so for oblige me I shall be glad if you will let me have the receipt.

Vory truly yours,

October Sti

. 3

Fadamo Mearces,

333 Madison Venue, dity.

Madam:-

If you have a gasame, in your school for a likelo girl ton yours old, En Edison would like to send his daughter as a day scholar.

He desires that she should take lunch with the really,

If you have a vacancy, will you please let me know at
your early convenience that your terms would be and how soon you
would desire likes Edison to convenie her stations

Yours very thuly.

P-S



October 5th, 3883.

Joseph S. Forrell, Esq.

Southwark Poundry & Machino Co. 430 Washington Avonuo, Phaladolphia, Jonua.

Boor Sir:

Your favor of the 3rd, anst, cane to hand during the absence of the Edison and axisolf from town. I returned this sern-ing but 39 Edison will not be back until next week.

I megret very such that you should fool compelled to write a letter in the spirit in which you have, and can assure you that the settlement of the matter would have been made ore this had not circumstances absolutely provented in Edison from doing so.

the Mikan has been away a very great deal lately and so have T, and in a have the harmoned that we have solden been here at the same time and have therefore been unable to discuss the matter of your outstanding claim and arranged settlement.

At this writing it is impossible for us to make a settlement, but I can promise to mend you to sorrow a note for 32,000, and possibly \$300. more. The note will be that of the Misson Company for Isolated Lighting, with Mr Misson's endersement, and I trust that you will take this as an earnest of our desire to make a sattlement with you as early as possible.

I shall be glad if you will wire me in the morning sta-

1883-10-05

whother this will be satisfactory to you.

We have had the engine at Georgh Street ready for you to use for some time past, but so far nothing has been done there with relation to the experiment which you promined to make.

Till you ploase wivise us with relation to this matter, and greatly oblige,

Yory truly yours,

S.J. O.J.

October Oth.

- 3

W. H. Dwelloy, Jr., Esq. Trons.

Edison Blockwie Dluminsting Co.

Fall River, .: Hass.

Dear Sir:-

I beg to acknowledge with thanks your favor of the 3th, inst. enclosing copy of the agreement between us duly excutes, also your check for \$4,186,88, the same being ten per cent of the amount of our estimate.

Very truly yours

October 3th.

з,

C. W. Rogars, Esq. Vice Prest.

Maetere Railway Co. of The U.S.

Wills Building, Gity.

Dear Siv:-

This will introduce to you in 2.8. Pract of London, who is desirous of looking into the matter of electric railroads.

If you have the railroad at Hende Park in operation and can arrange with him to see it, "shall eston it a favor.

Yory truly yours,

Taky

Middletoun + Mr. Schumaker

October 6th.

A. Stuart, Esq. Socty.

Cincinnati, Chio.

Done Sir:-

By converge, He byer, writes no from Uron, Chao, and says, a St. Schmader, the Probabition Candidate for severnor of Ohio and the largest property e-may in the city of Akron, was, when St. Dyor first not him, on the point of purchasing a 1.0 light Prush-Svan plant for his mill and office and intended to use a storage battery in connection With same. He byer says that he has demonstrated to St. Schmader the inefficiency of those batteries, and, furthermore, state that you will find it advantageous to open commitmentation with him Schmader) as early as possible.

Regarding the 300 light plant for Middletown for which I was to send you an estimate this week, not know any annual to the house through Allness. I have; however, had the estimate predered and it is nearly completed and will be forwarded to you on Monday. You will no doubt understand from this that the the delay was unavoidable.

Vary truly yours,

October 7th. 1883.

Southwark Foundry & Hacking Co.

430 Wahington Avenue,

Phila, Ponna.

"Doar Sirs:-

I received your telegram youterday, and have the pleasure to enclose you herewith note for \$2,000. of the Edison Company for Igolated Lighting endorsed by Mn Edison, who has returned to the City, this morning.

Please credit this to the account of the Edison Machine

Very truly yours,

SJ

. October Mah

W. F. breaster, Osq.

Southern Notel,

St. Louis. So

Bear Sir:-

In reference to a canvass of hew Orleans, we bon to say that we sould advise not making this at present. We think it would be desirable to wit until the Stilouis business is satisfied before going to the expense of making other curvames in the South, as it is our desire to keep the expense down to the lowest permitted figure and not make converses except when we are quite sure that money will come from these. If, however, Captuin Boffinger is willing to pay for this canvass of now orleans, we will of course make it under his instructions, but otherwise we would prefer not making it for the present.

Vory truly yours

Taked.

October at

3

Western Electric Co.

62-Gu Now Church Street, City.

Doar Sirs:-

Referring to your order Re. ORF, under date of October 4th, and which we return the result, we very much regret to state that we have not get on hand the carbons which you desire, and as "we have broken or our laboratory we have disconsiding instant them. Would it not be lessable for you to had a those yours If,

We should much profer you to deal with the matter in this manner?

Lary

Enclosure

October 16th

0

John Kruasi, Esq

33 Mashington Street, Sity.

Joor Sir;-

Referring to the attached telegram from the Transurer of the Larrence company, does your bod for the additional underground conductors take in the extension is lord refers to?

Places let me have a roply by bearer.

Yory truly yours,

21



October Uth.

"Socretary."

Edison Electric Edish Co., Limited, 74 Coloman Street,

London, R. d. England.

Boar Sar:-

We beg to ashowledge reseipt of your latter of the 35th, ulte, signed by Mr cland Scott covering orders Nos. 911 and 913.

The reduction in prices for lamps was made subject to orders being given us for 10,000 Jamps. The prices quoted to you were figured down as low an possible, provided lamps were endorsed in the quantities named. It is quite impossible for us to vary the offer sude to you in our favor of the 13th, alto., and unless you are prepared to order in accordance with that latter, the prices must stand the same as those given to you. There is not sufficient margin in the manufacture of lamps to allow of any modification, anless upon the quantities stated to you in ours of the latte.

We accordingly colled you to-day that we could only fill the orders at the old prices, unless you were prepared to give us

ry thully yours,

Octobor 8th.

Charles T. Hughes, Esq.

U. S. Hotel,

Howburgh, R.Y.

Door Sir;-

Referring to your favor of the 4th, inst., we see to say that it is not our intention to make any more detailed estimates for new burgh, as we consider that the information given in our letter under date of October 4th, is all that you can possibly want in submitting the matter to the wearburgh company.

In this lotter we show the reductions which we will note an the street installation and electrical part of the datamate, providing you decide to cut off the mains and fooder as described therein, and a further estimate would simply be a duplicate of the one you have embodying the alterations mentioned in our letter of the 4th. inst.

We will send you by to-morrow's mail blue print and specification of the building which we propose to eract at Now-burgh, and you will find the information shich we give you on that is necessary for an outsider to have in order to bid for the droction of sweet.

The statement of profits wall accompany them.

Very truly jours,



October 6th

34

ers. T. A. Edlayn,

· Usig,

My Dear Mrs. Edison;-

Can I sell the gray pony and the children's wagen and brown harness for \$100.7 This is the best offer that I can get for it. Johnny tells his the sugen is very mach dilapidated and the pony is worth comparisively little.

Places give no an answer by bearer, as I want to reply to the effor to-day.

I will try to get around to see you this evening.

Very truly yours,

81

Outobor Sth.

W. D. Rich, Esq.

cara Edison El settie Illuminating Co.

Lawrence, Mass.

Doar Sir:-

I enclose you herewith two blue prints, one showing the foundations of the Wall Siver building and the other the general interful arrangement of the station. I also attach an office copy of our estimate, and would call your attention to the fact the prices govern a guidance of the station of the fact.

To have placed our orders for the bollers, emission, dynames and steam and exhaust paping, so that there will be no delay when you are ready to have dd whip this material. We have also ordered foundation caps, welts and washers.

Referring to the column for not cost, do you not than it would be a good idea for you to fill in opposit such item (the contest of which is only accessible to you) the actual amount expended in connection with sum. I refer to foundations, boller hearth, cost of holsting a guying, stack, and you might also give the cost of the labor in connection with the hanging and direct of steam and exhaust piping ad. This would prove to be very valuable information to us and we shall be glad if you will find these costs as accurately as possible.

October 8th. S

C. R. Spiors, Esq.

283 Surray Stroot, City.

Donr Sir;-

Ht Edison wants to see you to-merrow (Tuesday) at twelve o clock sure.

Yory truly yours,

SI

October Uth

34

0. A. Moorass, Esq.

Kristiansund, Morway,

Dear Sir:-

Referring to your favor of October 6th., I had to inform you that the instrument you refer to for the assistance of deaf people was never perfected, owing to my having to give my attention to other matters. I hope, however, at some future day to take it up and deal with it again, but at this writing cannot say when it will be.

With relation to electric lighting, I think the best think you can do is to write to Mr Railey, who will doubtless communicate with you and sive you the information.

Very truly yours,

Haly

Octuber uth.

.

A. S. Kissoll, Req.

knoxville, Yenn.

Doar Sir:-

Your favor of the 3rd. inst. came to herd during my absonce from bown

In reply, I be: to state that the only way that we would make an estimate is to have a regular canvass of the term made, and on the dat; thus obtained make our tender in the regular manner.

There would be no necessity to have an electrician to run the station. One engineer and one meteraan is quite suffreiont. Sambury with 300 lights, Shasokin with 1800 and Brockton
with 1800 are run by two men, the metersan helping the engineer
from 3 P.M. until 10 P.H., after which hour the main load is nearly
off, the engineer runs the balance of the might and the reteman
comes on at 10 in the morning, attends to the meterwork, bookkeeping, collects bills and turns the miney over to the Trainver of
the Company. The indeed arrang is done by a local plumber, who
is taught the work by our experienched to any of the inside aircover,
and policy to have the local company to any of the inside aircover,
dis if they do the consumers will play off the light against their
wire bill.

2

If you will write bajor Baton that the prospects are good for organizing a company he will order us to side a canvass, and we will push through the work as quickly as possible.

If they require us to do the work, we are willing to take a contract, providing they leave the field of is to us. We are not, however, prepared to let them do part of is and take a contract for the remainder. Our experience with this method of procedure at Shamekin compels us to take this course, we it ends in increasing the day size and causes great delay, and gives methor water-faction to the local company nor to ourselves.

Yory truly yours,

October 9th, 1863

Cuntay Soldan, Esq. Supt.

104 Goord Stroot, city.

Doar Sir;-

Thon to give you below an extract from a letter which Un Russen has received from Mr. Ratchemer:-

" 180 light machine. I have just altered an J to give life large quite easy and it works your well indeed,

Areature: - would like a H 18 wires No. 10 each coil. resistance 0.030 ohms.

Each core wound with 10% lbs. No.16 wire, paper on core but after the bettem layer no paper.

The wire mass through a het solution of mara-

fin and resin on the lathe during winding.

Tost, 1,200 turns

140 Amiores.

110 Volts.

F Dynamo. I have altered all the F dynamos, we had commoned to give 1000 turns instead of 2400 which is a speed which gives no satisfaction in the hands of the public.

Armarure:- Instead of 2 wires 8 turns around I make 2 vires 12 turns around, this makes the armature more resistance but them we can easily sell them at that."

October 9th.

3

L. V. Serroll, Esq.

140 Massau Stroot, City.

Door Sir:-

I do not think there is any necessity to take an appeal in the first count of the Nicholson case.

Very truly yours,

Take

netubor 9th.

Goorgo W. Wilbur, Enq.

cave W. J. Jeake,

Brockton, Mass

Done Bir:-

Florage advise me as early as possible how meen you will be through conversant broadton. I would very much like to start canvassing hiburn, N.Y. early next week. If you can so there earlier, so such the better.

Yours trade

Octobby 951

.3

J. H. Bouty, Roq.

Shamokin, Ponna.

. .

W private secretary, in themli, will be in Whrackin althor Vednesday or Thursday, in order to arrange with you for the settlement of as account for the installation of the central station at Whatkin.

2all

October 9th.

Frank S. Marr, Esq. Troas.

Edison Electric Illuminating Go.

Sunbury, Penna.

Doar Sir:-

Performing to your Eaver of the fird, October melowing purgraph from the "Public Ledger", I here to inform you that, there was no fire, except in a service pipe four feet underground and where there was no safety easely. To fire one or has ever happened in our district, and we have reduced the average fires thirty five per contractable the average fires thirty five

Yory truly yours,

Tale

1883-10-00

October Uth.

3

Monero. Mergann & Se.

Bus Avenue, B, Sity.

Donr Sirs;-

I employe for herewith a two bouchs note for \$3,24,03 in destingent of our laboratory measure. By books agree exactly with yours on this account, no this electron as off until October lab

I also quelose you a three months note for \$3,990,03.

I make this amount up as follows:-

S1, 340.43 amount did four viring department by our construction department, according to our books and \$730.30 amount due your firm by our construction department, also according to our books. This beaves a difference of \$310.01 due to your according to your books, and which we do not appear at this writing to have on our books. In this wall communicate with you during the week with a view to straightening the master out, when we will endeaver to hand your a check for the balance.

I also unclose you a check for 83,000.00, on account of your account ugazant the Edgeson Electric Light Company. You should mad come one up to sign a voucher for this.

Will you please send as a check for \$1,400., in return for the check which I gave you on Waturday. I will deposit that check to-day, with the one I now have here for soon., lise this

arternoon, no they will not not into your bank until to-morron
Yory truly yours,

S

Enclosuro.

Detabas Oth

3

A. E. Beach, Esc

201 Broadway, City.

Dear Sar;-

Referring to yours of the Uth. Inst., I will find out from the writer of the article whether he would like his name published. By impression is that he would prefer to assume a new do piume.

Very truly yours

Jak

New York, October oth. 1888.

Cossrs. G. R. Couraud, Joshua Franklin Bailey & Thoodore Puskas

. Dear Sirs;-

The undersigned active for and by authority of the misson Telephone Company of Rurele, limited, and also for himself individually as co-vendor under the agreement desed 10th.

Now saber, liabl, between T. A. Edition, The Edition Telephone tone-pany of Europe, Jamited, and the Edition-Governedill Telephone company of Europe, Jamited, you are hereby authorized and directed to transfer the 175,000 shares of the Edition-Governedill Telephone Company of Europe, Jamited, nowhet and any name, into the names and to the amounts as follows, vaxi
1. The Edition Telephone Co. of Editope, 184,000

Witness

The Eduson Tolophone Company of Europe, Jaid.

Prosident.

Witness.

Gustav Soldan, Esq. Supt.

104 Goorek Street, Gity

Dear Sir:-

Horo is an extract from our motorman at Shamokin,

"I have fitted to one of the dynamos i couple of strais' by which the brushes may be raised from the commutator when shutting down. The arrangement is as in the following sketch.

All the is microstary is to pull the strip and catch the ring over the new fid ring is placed a nuckle to allow of adjusting the

lift. At the end of each strap is a small stick which is caught under the brushes (as shown at W. 1.)
The fullder are screwed to the constant of the dyname. There is didding slass to allow of shifting the brushes when necessary during a

Fun. The arrangement works gasily and the entire cost is about \$.90 Mat do you think of the idea?"

Your to

October 10t

Mossrs, Borgmann & Co.

202 Avonuo B. Sity

light coppers also you remember are too short."

Doar Sirs:-

I best to save you below extract from a letter received by she Educen from our meterach, an conent, who is now at Shamekint"The copper sires on the S light plates, as you know, are extra long to allow for the small plate. This is all right, but sometime has sent me a lot of TS Tight makens plates which for some from an effect with S light copper warps, go that to get show into the meter they must be out down, and we cannot wasted same in sonding these back but this should not happen again. The 33

Vory trul __yours

Messrs. Stigman & Mc. Carty

Brownesville, Toxas.

Doar Sirst-

Replying to your favor of the Ath, September, we beg to say that at Sunbury, Penna, we have installed a 500 Edison.

Electric light Plant, the cost of which, with building and everything jut up complete, was 514,300; at Shamokin, Penna, we have a 1000 light plant, the cost of same doublete being \$10,000; and we have also, a 1000 light plant at Brookfor, which was installed at a cost of \$31,000. All field plants are working perfectly, and consumers of the light may that they are thoroughly satisfied with it and would not on any account use gas when they can obtain our light.

We would suggest your sonding maps of both the towns mentioned in your letter, and if possible stop the operations of the are light people.

Vory truly yours.

Lake

Ogtober 10th

9

E. H. Lord, Esq. Treas.

Educon Electric Illuminating Co.

lawrence, lass.

Door Sir!-

I am in receipt of your telegram of last might stating that the resulting of the tremedee is unsatisfactory. I also resolved another telegram and letter from you this morning in reference to the extension of your system on both sides of Essex Street.

I have referred this and the matter of the imaginarectory refilling of the typiches to the Electric Tube Commany, who wall instruct their recenant at lawrence to have this work properly done.

The three 100 light meters which you ask for will be

Very truly yours,

Tak

F. J. Sprague, Enq.

Hotal Helmont,

Brock ton, liass.

Dodr Sirt- .

I sond you herewith maps of Middletown, Ohio and

Norwich to underground - Middletown Fire line.
Lindy los no boyo these as soon as possible, and obline,

Yours truly,

Jaly

3

Mossrs. Hergmann & do.

202 Avenue B, dity

Dour Sirs:-

Referring to your invoice of October lith, for one main ampore indicator for shamokin, which appears to have been ordered by Mr. Andrews, we had in future that you would not accept orders for material on account of the denstruction department unless they are insued from this office, us it causes grait confusion and we have know what material is being supplied for our stations.

vory traly yours,

Tale,

W. S. Andrews, Sag.

care J. J. Jonks, Managor,

Grock ton, Mans.

Donr Sir:-

I do in receipt this moraing of two involves from slens:
Bergsann & Co., each for an ampere indicator forwarded to Shambkin,
one of which has been supplied by an order from this effice and
the other by verbal order from yourself.

We do not understand what use you can have at shamekin.

In future when you require material destining the profession of this office, as it is ampossible for us to keep track of our business unless we know exactly what is going on.

Very truly yours

Taky

Electric July

October 10th.

٠.

Blockric Yubo Co.

05 Washington Street, City

Doar Sirs:-

I am this morning in receipt of a letter from the Treasurer effithe Lawrence Company stating that their system must be extended on both sides of Essex Street.

A few days ago I referred a telegram in reference to this extension, in reply to which you stated that your had for additional underground conductors required at Lawrence covered this extension. I received another telegram has unsatisfactory, and that the refilling of the trunches was unsatisfactory, and that your forcam would not repair the damage. We shall be glid if you will also both these matters your immediate attention, and acceptain what has given rise to the complaint which in Lord males, and have the matter adjusted is quickly as possible.

Vory truly jours.

Taky

Octuber 10th.

W. S. Dwelley, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Pall Rivor, mass.

Dear Sir:-

In reply to your ravor of the bth. inst., we ben to any that everything at Fall River will so should with all possible does atch, and in Rich will be there in good tame.

The Religion is at the moment working out his school for viring, and so would suggest strongly the advisability of your not making any process to the public about wiring or prices of the light, otherwise it will severally interferently us Religion's arrangements, as it did at Brackton, where all the wiring must be done over and where they started too low on the price of the light, and installed for some light than parties required, thus running up their bills unnecessarily. You can rest assured that work will be proceeded with to your instrumentation, and that no time will be lost by us.

Vory truly yours.

A. A. Cowles, Esq. Socty.

Ansonia Brass & Copier Co.

19 cliff Street, city.

Bonr Stree

I ben to enclose you herewith copy of my Power of Attorney from se Edison, as promised.

Very truly yours,

7. S. Andrews, Asq.

Franklin House,

Lawrence, Mass

Doar Sir:-

At Jawrence it is proposed to put will anothines to take the place of the one sod light spars machine, and this will require a different regulator to what we have been putting in in distances already started.

se have got to provide for running, first, the two regular machines, second, for one of the spare machines on either side, third, for one of the spare machines on each side, fourth, for both of the spare machines of one side or the other side, as the case may be. Now is your satch going to take care of this, and how are the regulators going to be arranged to take care of ity

Will you ploase study up this matter and lot us have your ideas at early as possible, and in doing so please remember that an "p" regulator costs us 450., and that we want to keep the expense of the regulation down as low as possible, computable with its completeness. Of course you may think of sume other points that we have to take care of basides the above enumerated, it so, allow for it.

Very traly yours

I.J. y

Goorgo'S. ladd, Esq.

222 Sansome Stroom

San Francisco, Call.

"Djaboarrier:-

I am obliged to you for four favor of the 3rd, inst., and must thank you for the trouble you have taken with relation to our light for Mexico. It is, however, a matter with which I am personally unable to deal, it Mexico is controlled by the Edicon Floring light Company, she I think have a construct with conde one in Analysis of Mexico.

I have referred your lette to Major Eaton, and he will doubtless communicate with you giving you detailed information on the subject.

With kind regards, I remain, ...

Vory truly yours

al #7

Faul D. Dyor, Esq

Post Office.

FansasaGity2 Mc

Dear Sir:-

T telegraphed you to synthiams, My, requesting you to canvass baseds City.

Mr. William P. Browster; the special agent of the Edison, Electric light Co., desires for to see Mr. V. H. Winants, Gashier, Armour Brothers Hamking Co.

It is proposed to put a plant in Ransas city of 4000. lights, so you will have to take in as large an area as possible.

I know it is quite unnecessary to urge you to harry through the canvans, but I may as well stite that we are waiting to got out the estimates and of course can do nothing until we get the canvass from you.

Very truly yours.

hessrs, Brewer & Jensen,

33, Chancory Lane,

London, W. C. England.

Door Sirs;-

Referring to your notice as to Patent4, 276 of 1880, "

I begate inform you that I do not propose paying the fee, and the Fatent will therefore have to Tayse.

Vory trul/ /ours,

Jal

October Mich.

William F. Brewster, Esq

Southern Hotel,

St. Iours, No.

Door Sir:-

I have your favor of the 6th, inst:

I have ordered an Paul ", nyer to lansas they to make a ganvass of the town. It was in cynthiana, My, yesterday, and I presume will be in kansas City in the dourse of a few days. I also wared you last night asking you to send him introductions to the right parties in Kansas City. I trust that you have done this.

We have instructions from Major Raton with relation to the canvass of New Orleans. Immediately Mn Dyer is through at Kansas City, it would be well for him to no to New Orleans, but I would augment that you write Major Eaton on the subject. I have myself sent a memorandum down to Major Eaton about this matter.

Very truly yours,

Jak

October Lath.

C. H. Cooke, Eng.

Osborno liOuse.

Auburn, WY.

Doar Sir:-

I was away at the time you started for Auburn, and therefore had not an opportunity or speaking to you.

of your canvasses which show a great many mistakes. Apploton is a special case on which he has based his reasure. I have been over landota convass with a gostleman from that place, and he dies claims that it is very incorract, and I notice in several places that you could noticely the allege and your works of lights in many cases are very defective.

T write to marn you about this matter, and trust that the Adburn canvass will be a complete one.

Very truly yours,

SJ

. I. Carrison, Esq. Troas.

Edison Electric Illuminating Co. of Brockton,

Boston, Mass.

Dear Sir;-

We wired you last night requesting you to communicated with in C. N. docke, Osborne House, Auburn, whom we have sent there to canvass the town.

We are anxious that he should get from you the manns of local parties for him to call of with relation to the canvass, and therefore trust that you have dritten to him on this subject.

Very truly yours.

Jak

3

0. J. Smith, Esq.Prost.

Americal Press Association,

39 & 41 Park Place, City.

Doar Sir;-

Referring to your latter of the loth, inst., We Edison, who left town last night, requested me to inform you that he is so yery bus, that it is quite impossible for him to write the articles you refer to. He will be out of town the most of the 'ims between now and Asymmetr lat., but after that dute if you care to interview him, and so get at the data to write up articles on the Edhjot you refer to, he will be 'very glad to give you the necessary time for the purpose, whis? I main is for one of your representatives to get from in Edicoln 'Skidely his views and then write them up himself.

Vory truly yours.

/ S J y O S



Charles Batchelor, Esq.

Paris, Franco.

My Doar Batchelor:-

I have your momorandum as to case No.02.

I will look into the matter further and write you again in the course of a few days.

I heaten, however, to reply to your reserve on our meter.

We have been running since the 4th. July at Juspury, at
Shamakin for the last senth and at Brockton for the last thrue
weaks and down town since the early part of the year, and in all
these-places our meter has given very great satisfaction to the
consumers. At Sambury, where in all probability our customers
have four lights in their houses than in any other place, the
consumers in several instances history kept an exact record of the
lamp hours, and the bill has tallied so closely with what they
reckened it eight to be from calculating by their lamp hours,
that it has really surprised me, as the variation hus not been
more than two per cent in any case, and in a number of cases the
meter and lamp hours havebtallied within the smallest possible
fraction. We dispense now with the quarterly bettle, and use one

bottle as a check on the other, calculating the loss on the plate in each bottle and taking the mean.

I will got from Mr. Chimnock some copies of his mater accounts and sond them to you to substantiate what I say.

In fact I as so mary much pleased with our meters, that I would not for an instant think of using the recording meter, as the advantages of its boing automatic would in no wise compensate for the difference in correctness as compared with our present form of meter.

Vary traly yours, Tak

a: ...

Oatober 13t

Hosers. Alden & Sterne,

City.

Door Sirs:-

I enclose you herewith letter from Homer Horgan,

We are very anxious to let Graners; Park indeed. Do not you think it would be a good idea to put up a notice that the house is to let?

Yours truly

Jak

occober 13th,

C. E. Chinnock, Esq.

.... 257 Fearl' Street, City

My Doar Chinnock:-

We have a latter from Surope "kicking" against the use of our meter, and we have written saying that if a check is kept on the meter by keeping an exact account of the lamp hours the correctness of our meter would be established.

Wild you please write me a letter officially giving your experience with the meter and accompanying it with a few specimens of your meter records, which gives the name of the consumer, the loss on each placed and the amount of the account, alouds mantioning on what standing the calculations are made.

What I want to do is to "lay out" these Europeans who "kick" against our meter, and want us to adopt a recording meter which would never be such a sedecess as our present meter records.

Very truly yours,

.....

Thomas P. Conant, Esq.

woovers Mational Motol;

Shamokin, Penna

Door Sir:-

Your letter asking for a check for salary came to hand while I was in Williamsport.

I, have the plansure to analyse you harverth chark for a , boing the assumt of your the months of August and Corrector. (The Quare Jensal Uf Cor 122)

I shall leave Now York for Shambkin Sunday night, and shall hope to have the pleasure of seeing you Monday morning.

If you should happen to find a piace of stank not more than ordinarily tough, you might save me half of it, as leather flavored with the essence of boolstoak is containly indigestable, to say nothing about its being ungalatable.

Very truly yours

SJ

October 1.4th

.

W. S. Androws, Esq.

. Franklin House,

l'awronce, Hass.

Door Sir:-

I am in receipt of yours of the 11th, inst.

I cannot possibly order conant from Shamokin at prosent. Cannot you berrow from in Rich some of his man to help you and so push your work through railedly? I am anxious that Jawrence station should be started as early as possible, as we have quite a heavy parment dependent upon the current being put on the mains.

Yory truly yours.

S 3

- 3

F. J. Spraguo, Esq.

Hotal Ballmant,

Brock ton, Mass

Doar Sir:-

To beg to remaind you that unitarishin writing we have never received any detailed report as to the progress of the bininess in Speckton. We are frequently called upon by the Officers of the Electric light Company for information, and to are absolutely unable to give it in consequence of our not hearing from you will you please, for the future, report at least twice a week to this office, irrespective of whether En Eddson or the Friter should happen to be in any town where you may have charge of the electrical work. When we tell people that we are unable to give them information, they are inclined to think that we do not information, and our position is therefore a very askward one if you do not keep us posted.

Very truly yours,

Sy Insul

October 1.4th.

P. Ward Joonard, Esq.

care 7. J. Jonks, Esq. Manager,

Brockton, Mass.

Dear Sirt-

I have your letter of the 11th, inst., and enclose by you check for 355. as requested.

Then you were here I asked you to report to this office exactly the course your business takes in tweeton. You should send us at least twice a week a statement showing the number of meters installed, in whose house they are installed, on which stdy the of the circuit the lights are and the number of lights each consumers is wired for, also any other information of interest in relation to the moter business. I trust that we shall not have to ask for this main, as I can assure you at it were annoying not to have the information here, as we are frequently called upon to make the information and it places us in a very awkward position in not being able to tell people, who have a right to know, how our business is running.

Very tral / yours,

Sprane Palec

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,

Noston, Vass.

Doar Sir:-

I have your letter of the lith, inst.

The reason the bills have been unpaid in proceed is that it was impossible for us to deal with the until getting in the leaf is uproval of same. This approval came to hand durang my absence from town. I returned this morning and will pay them all up immediately they can be passed through our books, which will be I prosume either to-morrow of Henday.

Very truly yours

Jal J

October 12th

W. H. Douty, Esq.

Shanokin, Penna.

Doar Sir:-

I found your tologram here when I returned from Williamstort.

I shall be in Shamokin Monday morning, and Shall hope that things will be in shape by that time.

I have just get the first small delivery of the mest cubic. Will you plouse wire me in the morning the quantities and sizes required by Floyd of this material. If he wire calculates on simple wire, I will know how much double wire to ship.

ory truly yours

Sy

P. R. Upton, Esq.

East Newark, R. J.

Door Sir:-

Referring to your favor of the lath, inst., I have thought ever your projection as to English orders, and I as strong ly of the opinion that we should not give way to them of the question of prices, as if we do we will be compelled to take the same read all through, and they are acted desirable castessess that we need trouble ourselves should bidding very closely for their tride.

Your truly jours.

Jak

1883-10-15

October 15th. 3

W. S. Andrews, Esq.

Franklin Bodge.

Lawrenco, dass

Dear Sir:-

Referring to your letter of the 11th, inst. to we disson
he mays that he thinks that you can figure on what the Sammekin
people require for their Opera He we forward!. If no, will you
please not up a sketch of the regulator and sond it on, and we will
have bergmann estimate on it.

Very tral, yours,

8,J,

October listh.

Gardner C. Sims, Esq.

Frovidenco, R. I

My Boar Sims;-

The speed indicator which we use in the central station is made by T. R. Harding a Son, Tower Works, loods sample and but they have agents some where in Mosten. I do not, however, ince the greats address, and we do not appare to have any spare indicators on hand. I should fifth some of your Mosten Friends could probably assist you towards metaling one.

very truly yours,

81

October Lith/

W. S. Andrews, Esq.

FFranklin House,

Lawrence, Mass.

Doar Sir;-

Referring to your letter of the list, inst., to do Edison, as far as I understand there are three appear meters at Shamokin, whoreas our contract only calls for one, and my impression is that we shall have to stand the loss of the other two. One capare meter would have been sufficient. I presume, for them to get along with, although of course it is desirable to have two and much better to have three. My idea was to lot the matter run on until so had settled our contract, and then if they wanted more than one they could order it. I cannot find any record in my office of having ordered more than one ampere moter from Bergmann. ... Whon I compression to him that three were sent, he says I must blame you, as they were at your request. Chamberlin knows nothing about what ampere meters should go to one place or another. I know your inclination is to communicate with us in all matters bofore doing anything, but what I want to got at is, in this spocinl case, whether it is Bergmann's "bull" or your instructions, or some remarks of an Edison to Chamberlin, which caused three empere moters to go to Shamokin, which is a loss to as of about 340.

When he gets there :

Ogtobor 1Stb

W. S. Andrews, dsq.

Franklin Hoose.

Lauro neo.

Door Sir:-

Referring to your favor of the 11th, to Mr. Edison, we have talked the about over of the Lawrence central station had have come to the conclusion that the best thing to do is to give you Carte Flanche to let you make such arran counts as you see fit. Will you please do it on as occionidal a basic as possible.

I think Mr. Edison will be in brockton some time towards the ond of the week, probably about Wednesday or Thursday, and he will have a pressure indicator with him, which is just the "boss". When he gots there you want to go over and see it work. We propose taking out all the old pressure indicators and putting in these new ones.

Vory truly yours,

October lith

ou.

"Socretary",

Edison Electric light Co., Limited, London, E. C., England.

Door Sif:-

Referring to your Assistant Manager's letter of the And.
October, I beg to inform you that order No.388 will be shipped by
the Assyrian Monarch on the lith. The engine has been in Mew
York some days, but there is no stemmer sailing earlier. Your
order also for an #2 x 10 engine will be shipped at the mand.

time. I may mention that our engine builders have so many orders
whead, and wecourselves have to order quite a large stock of
engines in order to meet the demands against us in this country,
that it is very difficult to send you an engine off-hand. If
you are not prepared to carry a stock of engines you should order
them well in advance, as otherwise we will have great difficulty
in getting them for you by the time you require them.

Very truly yours,

Tak

October, Lith.

W. H. Dwelley, Esq. Treas.

Edison Electric Illuminating Co.

Door Sir:-

Referring to your favor of October 10th. to dajor Enton in relation to the installation of your plant at Fall Rivor, I would state that we are pushing everything in order to have the plant installed at the time stated, namely, the endoor developer. You must really leave it to us as to shether so shall commoned any particular part of the work. We do not done to send men to Pall . River to make a show there, and getcome part of our work through a month, before the other. This we cannot afford to do: Everything so far is going on very well, with the exception of the tubes, and I am inclined to think that your not writing to me guaranteeing the tubes, so as to enable us to order them, may cause us some dolay. So far we have had to make considerable sacrifices in order to got promises of deliveries of tubes at all. I fancy, however, that Mr. Rich Has been to Fall River since you wrote, and is preparing to start his portion of the work, which I can assure you is the quickest done, and, consequently, should be really the last commenced. If you will please have a little patsones and not think that we are doing nothing, simply because you

do not see a whole army of men in Fall River, I think you will find the thing will come out all right...

Very traly yours,

Zak

October lith. . . .

F. J. Sprague, Esq.

Hotel Belomont,

Brockton, hass.

Dear Sir:-

Your talegram of the lath, came daly to hand.

We have not a very high idea of Johnson's qualifications, and have been endowering to get a dan more suited to our work, but we have not at this grising been able to get she can think against, and until we do get one if is quite impossible to recall Johnson. Seantine we would like to the first real season further information as to the trouble with him you complain of.

Very truly yours,

Jak

October 15th.

John W. Lieb Jr. Esq.

via Manzoni, 12 A.

Hilano, Italia.

Door Sir:-

Referring to your favor of the 37th, September, I regret to say that I cannot send you the ringing you ask for unless I set an official order for same.

Tith relation to the valve metion assigned to the Araingles a Sims engine, which you say is proken, I can gave no explanation, except that the trouble-must have occurred after the engine left here, as before we shipped it it was thereughly tested.

Jak

detober löth.

W. A. Stern, Esq.

.830 North 5th. St., 'Fhile! Fa.

Briendi Stern:-

Your two postals of the lath, inst. just to hand.

We are having the library removed from an adjacan's house
to this office, and as soon as the books are in order I sill look.

up "Gordon's Electricity and magnetism" and send it to you.

I am sorry to near that you have been eight weeks in bod suffering from such an accumulation of troubles, but it is a great relief for me to know that such troubles are of a legitimatelinstead of an illegitimate nature.

Hoping that you will soon be well, believe mo.

3,1

P.S. Owing to my having to go out town, this letter will have to be signed by my assistant, as I dictated it on Sunday, and it will be written on Henday.

3

detuber lith.

Gardnor C. Sims, Esq.

Providence, R. I.

Doar Sir:-

I have your favor of the loth, inst.

I do not care to stand the expense of your sending a man
to start your engines in our stations. I think that you should
suilly us with an engine shich we can start ourselves we have,
as we have.

Very truly yours,

GJ, PS,

October lith.

P. J. Sprague, Esq.

Hotel Belment,

Brockton, Mas

Doar Sir!-

We have to maknowledge with thanks your voluminous letter of the 18th, inst.

At the moment we will only deal with one or two points.

I have received your telegrams asking as to receil.

Johnson, and this morning wired you to have him return to new York
at once. I told you, if you have the money, to give him \$50.,
and if you had not to draw on me at one day's sight for that amount
and to take Johnson's receipt for it. We are very much surprised
and attappreciated in this man.

In relation to pressure indicators there have been vast improvements made in these within the past few days, and the difficulty you have met with will be entirely everence when the new indicators are placed in service. Mr. Edison will good to Bruckton to-morrow or the next day and will have one of these with him.

At the moment I have no time to deal fully with your letter but will do so this evening or to-morrow.

very truly yours,

October 16th.

Thomas P. Comant, Esq.

Weavers National Hotel,

Shamokin, Ponna,

Doar Sir:-

I fancy that I have lost my bunch of keys in room 10,

Will you please enquire as to whether a bunch of keys were found in that room, as I am absolutely keyless.

Very truly yours,

39

October lith.

il Ward Loonard, Esq.

eare Edison Electric Illuminating Co.

Brod ton. Mass.

Doar Sir:-

or Sgrapue informs in that one 50 light motor complete and one 40 light motor were shipped to Borgmann & Co's on the 12th. from Brockton, and gays that it is your intention to write Mosars. Horrmann & Co. on the subject.

In relation to defective material, we particularly desire
that all your correspondence shall come to this office, inasmuch
as we order the material and there should be no communication
between the parties receiving it and the parties from whom we
order it, as we expect those who receive material to consider it.
as coming from us.

I trust that any complaints you have to make about this matter you will send to us at the carliest possible moment, and comble us to have the matter corrected.

Very truly yours,

Jak

October 16th.

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

· Lawrence, Hass.

Doar Sir:-

We have your letter of the 18th, limit, in reference to lemethening the buller room of the wall River station, and in reply we ben to say that if you will build a manhele door for eleming jurposes at the point X shown in the attached sketch, both bullers can be entered from flues. This arrangements should be effected for the first pair of bullers installed, and the small arrangement will be necessary for other installations in the fattere. You could also obviate the difficulty by having the doorn on the top of the floor, as shown on several prints, so that with building or buller.

We are soins to order forward at once all the material for Pall River, and trust that you have made the necessary arrangements for receiving and storing it until such times as it may be required to be used.

Very fruly yours,

プ

October 166

:3

Ball Engine Co.

Eran. Ponna.

Doar Sirs:-

We bog to acknowledge receipt of your favor of the 12th inst. in reference to your automatic cut-off enganes.

In reply we would say that it would be necessary for us to make a long test of an B 2 x 10 or one that size at our Works, 104 Goorde Street, Row York, before we could think of negetiating with you in relation to the use of your engines for electric light-

Vory truly yours.

Jale G

October 17th.

W. S. Andrews, Esq.

Franklin Fouse,

lawrenco, ass

Dear Sir:-

I have your letter of the 14th, inst., and in reply ber to state that Mr. Edison insists that the regulation of the 400 light machines must be taken ears of in the small bathod that we now take care of the spare 500 light machine. Now this is to be done I do not know, in Johnson subjected an arrangement of switches to be interposed in 160 line between the registrance boxes and the field and then you could plug in olther one of the small machines or both of them on one side or one on each side. You freing on this, and let us hear from you further about it, as it is hardly a matter which I have the ability to discuss in correspondence.

Rorgmann has been notting up a new regulator semething like the regulators used at the destruct station. My impression is that we will put this in our control stations in the place of the regulators already sent out.

The not know when you will get the new pressure indicators. Can you get along with the old form of indicators. If so, I can send these to you at any time. We intend to send out the new prossure indicators, which an Edison has been getting up, since you loft, and which has been working like a charm, but this will not be ready for some time, and of course the stations cannot be kept waiting in consequence thereor.

Taill let you know Scheenium the plum feeder switches and sufery catches. The first dozen had a backboard, in fact those sent to lawrence had a backboard originally, but they wage taken off the board at the request of an Sprague, who considered the board useless. I must say that I agree with you as to the advantage of having the backboard.

I have written to Soldan about what you asy as to dynanos. I do not knownexactly when you will got the 400 light machines, may be a week or two.

You do all with the matter until Comant is able to leave Sheeching I would must prefer that you should do this, as we have no isen to send you anyway, and I know you would like to have comant with you, so I would like you to got along until he can no to lawrence. He was all broke up at my telling himbar would have to stay a wook or two longer in Shamokin, when I was there the other day.

Vory truly yours,

29

October 17th, 1883.

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Boar Sir:-

I have recently received a number of complaints from the maching works about errors in the delivery of wire and copper rods. Such errors necessitate the return of the deterial, and, consequently, a very great delay to us at the waching works.

I write to draw your attention to the matter, thinking that it is probable that you may not be aware of syste.

an Soldan, our Superintendent, told me this morning that he would call to see you in the course of the day about it.

Vory truly jours.

· October 17th.

laul D. Dyer, Esq.

Fansas City. He

Dear Sir:-

To have your letter of the 11th, inst, dated from Cynthiana, the cunvass of which place arrived here on the 13th, inst.

I wired you on the lith, to go to Maysville and make a canyage of that toom after you had familiated Mansas City. Mr. Stuart is your anxious to have Maysville canyased without dolay, and I therefore wish you would iso all possible despatch in getting through the term you are now in.

Very truly yours,

1

A. Stuart, Esq. Secty. Cincinnati, Chic.

Doar Sir:-

. We are this morning in receipt of your favor of the lith, inst., and in reply beg to say that we have instructed Mr. Dyer to return to Maysville and make a sanvass of that town after he has finished Kansas City.

We note with much sitisfaction your statements as to the agganization of the Yiffin Company and the prospects of closing a -contract with them.

Under separate cover we send you the estimate for a 1000 light plant for Tiffin with street installation to cover 1709 lights. In our telegrum of the 12th, we explained to you that the building which we proposed creeting was to be of brick with stone foundation, and the cost of same \$3,000. If you prefer a frame building, we will erect one suitable for the purpose for \$1,400., but inasmuch as there is not a very great difference between the price of the frame building and the brick building, we beg to suggest the advisability of eracting the latter.

In relation to temporary fixtures, if you do not wish us to supply these you can cut the amount (\$194,08) out of our esti-, and make arrangement to put in permanent fixtures from the

start

In relation to other estimates, we hope to send you before the end of the week Middletown and Pique, each a 300 light plant, as you requested.

Trusting that dir Tiffin estimate will be found satisfactory, we remain,

Very truly yours,

P.S. We presume you inderstand that our bid for the street installation only holds good providing the necessary grants and concessions for the proction of our poles and running of our wires, in accordance with the red lines shown on the map sent here it and warfog Exhibit "A", are obtained by the local company. Should they fail to obtain any of these and thereby put us to any additional expense, from having to change the course of the pole line system, it is understood and agrood that they shall reimbured us for the expense.

October 17th.

P. B. Shaw, Asq

Williamsport, Fenn'.

Your latter of the lath, containing resolution passed by the Selletonic company, and letter from an Harris, secretary of the same company, and your telegram of this morning have all been received, and in reply as be; to say that so will have a convessor at Hamleton to-morrow of the next day, and after he finishes up there he can so to St.Cafmel.

If we close a contract with the Manleton company before
the let November, we will undertake to put the plant in and have it
runniam before Christade. A canvass of the sown should occupy
about four days, and a week after its receipt in this office we
could have the maps propered and the ostimate turned out.
Just here we wish to remit, that we are feelly surprised that the
broath of the Wellefonte Company has taken away by our estimate.
For a plant of that size, (\$1,000.) we considered the estimate
very fair. We will, however, comply with their request and sand
thom an autimate for a 300 light plant at the eurliest possible

Very truly yours.

.... S.J

October 17th.

Custav Soldan, Esq. Supt. .

104 Coorel Street, City.

Bear Sir:-

"Concerning the "H" dynamo, the small square headed belts used in clamping the connections on the head board should be stouter.

I found two of thee heady bent here, and I broke one at Shessekin. Then I was in new York I provided myself with two spare ones, or I should have been obliged to have had some made here. The two stop pins in groove of rocking are are useless and in the way, I have had thus chiracteristics.

I thought you might like to hive the above remarks from the Andrews, as he is probably one of the best pasted men we have at the present time.

Yours truly,

SA

Electric Pen

Octuber 17th

John F. Rygers, Esq.

idd India Square,

Boston, wass.

Doar Sir:-

We have your favor of the lith, inst., and very much regret the unavoidable delay which has taken place in supplying you with the duplication ink. Your having some made up for you and will sold it to you as soon as it is ready, which will be in a day or two.

Vory truly yours,

Jaly

October 17th.

John Ott. Esq.

393 Avenue B, City

Door Sirie

I seeless you herewith receipt for making the duplicating ink. Floase make up about a gallon of this and advise us when it is read/.

I also attach two statements, showing the amount of cabit (No.10) which has been delivered at 55% Avenue B for de. One shipment was made on detuber 11th, and the other was made yesterday. We shall be glad to know if you have received the shipment of detuber 11th, and if you are having the ware weighted, as it comes in, and stored in the laboratory.

In relation to mercury, 'we sent a box over to you yesterday which we presume contains the missing article. Ploase fill all our orders for sulphate of zine and moreury as quickly as

ery trul/ yours

Enclosure.c.

October lath.

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3

F. J. Sprague, Keq.

jotel Helmont,

bruck ton, ass.

Boar Ster-

I forward you per early mult chart of aidellotwen, Ohio, with mains and feeders marked off as per determination herewith, which please check and component if necessary, and return as early as possible.

very truly yours

81

October 18th.

Gardner C. Sins, Esq.

Providence, R. I.

Friend Sims:-

blackgoarding the Edison business. It all comes out of some blackgoarding the Edison business. It all comes out of some decilings I had with him with relation to the sarvis-getting at lawrence. He told so that we clarke had undertaken to pay for the sotting, if we would order it jut in. I consequently ordered it put in, is it would east us nothing, and or clarke street that he put in, is it would east us nothing, and or clarke street that he fail not undertaken to do any such thing, so that the larvis moting was not put in. This irritated wright, and to relieve himself the talkes in a mannervte Rich which is hardly becoming to the copy sontative of engage builders who have such a champion in six Edison. I should not have written to you about this matter, the but & heard of he wightly's remarks though another source. He is deputions a very good fellow, but he has not the ability to be discreed in what he says, and I should advise you to nive him a

.I was very sorry to massaurs, Armington, as I would like

to have seen her.

I have cubled home to my mother asking hereto wire Mrs.

Armington at Cucensland inviting her to stay at our house in

Jondon during her visit to that City. Pheuse tell Alice this, as

I told her I would send such a cable.

Yory truly yours,



October luth.

T. Adams, Esq.

City,

Dear Sir:-

Agreembly rith jour request, I be: to mins you below an estimate of the probable running expenses in connection with the electric light installation which it is proposed to make at the gazarre glats:-

DATIY.

Electrician and meterman 3 3.5	0
One ongineer, seven months	
Two engineers, five months	0
One fireman. 2.0	ō.
Coal 4 lbs. H.P. per hour at 34. being	
3 tons year round 9.0	0
Oil, waste	
Water 1.96	5
Lamps at \$1. each	
Insurance 1,50	
Depreciation (long)	
Repairs	
Stationory30	į.
Manuand 70 to	

Above based on a daily average of three hours use of the 4000 lamps during the year.

Taking into calculation that farties be absent two months in the year and that only 4000 out of 11000 lights is figured on, it is believed this average is correct.

Adding five for cent inferest on say \$100,000.; which for \$35 days is \$13.50 per day, the daily running extenses will be \$70.00, or \$25,670.50 yearly.

4000 burners burning oddal to five cubic feet of coal name would be 20 hs per hour of 00 hs per day of three hours average the running expenses being 370,000 dully, would bring the cost of each is equivalent to 31,1b. Enying cas at \$2,25, would make a loss of \$34,10 a day to the occupants of the Flats.

Interest at five per cent being already allowed, this

2014.10 would pay thenty three per cent more on the 3100,000, or alterather twenty sight per cent on the investment, and the investors shall obtain a vastly superior article.

fery truly yours,

P.S. With lot apartments, this would be 3770. For each, as investment and light bills would be about \$16.75 jer month.

October 18th.

T. Agams, Esq.

cit/

Dear Sir:-

Referring to your request for an estimate for the installation of an electric light flust and other electrical work at
the eight Mayarro wlats, 36th. Street & Seventh Avenue, I beg to
state that we will, with the permission of the Kalson Bloetric
lliminating Congray of New York, install for the gum of eighty
nine thousand eight hundred and fifty dellars (Sun, 830.) an electric light plant which till surgly at one time 4000 lights, naving
ton candles aspherical illumination, which is about equal to five
foot of coal gas as burned in practice. The plant can be forced
on gensions to run 4300 lights. The Balson Bloetric Illumination
company will guarantee that the life of the lamps will average
one hours, when they are run at their rated power of ten candles
each, and will also guarantee that ten lamps can be obtained for
every indicated horse power.

In addition to the above, the amount named (Suc, 650.) includes the wiring of all the Plats for about 11000 lights, the wiring for telephones, electric bells and district telegraph calls to a central station in the Plats, the restoring of the platering where it is necessary to cut helps in the walls and collings, The

furnishing of emitch-boards and the fitting up of a contral station except the telephones, which for mill have to obtain from the Telephone Company, and also the furnishing and erection of speaking tubes throughout the Flats.

The terms of payment that I should require, if I contract is entered into, are as follows:-

Twenty five per contum of the amount of the contract on the signier of same, tranty five per contum when the engines, boilers and dynamous are in their place, twenty five per contum when the electric light installation is ready to supply light and twenty five per contum thirty days thereafter.

Vor/ truly /ours,

Day

October 15th.

Dr. O. A. Mosos,

153 East 77th. Street, City. Bear Sir:-

I should like to see for sometime Saturda/ morning, if convenient to yourself, with relation to your are lamp shipped to Wr. Matchelor.

I have a communication from him in which he requests no to see you on the matter.

Very truly yours,

٠,

Octuber lesh

Paul o. Dyer. Eng.

Motropulitan Notel

lansas City, so.

Boar Sir:-

Your two interesting epistles of the 14th. Inst. were duly received, and I certainly think that you deserve a putty model for your bravery, and have no doubt but what your exploits will find a place in your Country's history. To face the braves of the mast most certainly requires a man of your sirrit, and it is for that reason that you were chosen for the emercian arrisky enterprise which you now have in hand. All I hope is that if the worst should occur that you will leave such directions as will enable us to dispose quielly of any balance of account that may we still be due to you in this office.

When you got through at lansas City return from the western wilds to the civilized and fertile regions of Kentucky and finish your canyage at Mayeville."

Meantime, trust in God and Loop your jorder dry, and remember that the man who gots his hand in his coattail first has the best chance.

Very truly jours,

I Insuir

Androws, Esq.

Franklin Fouse.

Lawrenco.

Doar Siri-

T have your favor of the lith. inst.

Ur. Edison thinks that what you propose for Shamokin would do very well.

Will you please let me know as early as possible when you think you will be able to start at lawrence?

Have you the ampore meters and the feeder indicators

Sauf, Gusul

J. C. Tomlinson, Esq.

City!

Friend Tomlinson:-

I enclose you herewith a letter from coorne H. Mackellar with relation to the claim of Charles E. Rocap.

We owe charles 2. Weesp about \$1,400., and which we proposed paying him if he had not taken this means of bringing it to our notice. What he refers to as a compromise of account never took place at all. Now if we were to let Charles 2. Rocap sue, it would take hims cortain time to win his suit and would also cost him money in addition. What I went to get at is about what It would cost him, and also how long it would take, under the most favorable circumstances, to gain his suit. Then I propose making a sottlement with Mackellar or having you do so for the amount of \$1,400., less what it would cost 2r. Rocap to sue us, and I will extend the payments over the same period as it would take him to win his suit, in fact I propose getting oven the the young gentleman. What he claims is an amount which Mr. Edison made him a present of. If you are anywhere neaf Mackellar's office to-morrow you might call and see him and show a little fight, and state that

1883-10-19

1

the letter has come into your hands in the absence of Mr. Edison and his grivate Secretary.

Very truly yours,

October loth.

. .

7. J. Jonks, Esq. manager,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Siri-

. I shall be glad to hear from you as to when you will be prepared to take ever the station and run it independent of any assistance from my poople.

Very truly yours,

October 19th.

3

A. E. Beach, Esq.

dol Broadway, City

Priend Beach:-

will you proceed with the publication of the article on "storage battery". One alteration, however, should be made on the seventh line of the seventh rage of manuscript, change the figures ly to 37, as they ought to road 37 instead of 19.

Can you manage to publish the article in your next issue, as we should like to copy it from your paper into the next bull-letin to be issued by the Rdison Rectric light Company, but or course we cannot do so until after your publication of the article has taken place?

Very truly yours,

P.a.E.
J.

October 15th.

H. Jard Toonard, Esq.

care Edison Electric Illuminating Co.

Coar Sir:-

Your letter of the 13th, came duly to hand.

The report you sent me is exactly what I want.

fith reference to carrying three wires into a house, I thin; it is necessary in small plants to divide the lights partly on to the "A" and partly on to the "P" side.

With reference to your complaint that it is impossible
to see how many lights are on one side and how many are on the
other, the variation in the empere meter every evening ought to
show you what you want in this connection.

very truly yours,

Jae

October 19th.

Charles tatchelor, Esq.

Faris, France.

by Doar Matcholor:-

Referring to your favor of the 4th. inst.,
the reason that we charge so much for our 300 light machine is
that we have so few orders that it is impossible for us to sell
changer: In addition to the mark cost of the machine, we have to
stand all the heavy experimental expenses at the Sachine Works, as
owing to troubles I have had with the Light Company I decided I
would not put in any payments to them for this kind of work.

Very truly yours,

Jaz

October luth.

3

N. W. Pratt, Esq.

care Pabeock & Wilcox Co.

30 Cortlandt Stroot, City.

Coar Sirt-

Sr. William Burrows, Freight broker, of 4s Broadway, called on me this morning seliciting our freight, and montioned your name as a reference.

We have a very great deal of freight, and in order to get good rates and proper attention, I have for semetime been thinking of the advisability of putting it into the hands of a broker.

will you please advise me what you know of Mn Burrows, and what your Company pay him for any business he may transact in the business above referred to, and by so doing you will very greatly oblige,

Yours very truly,

V.

Otto A. Hoses, Esq.

City.

Doar Sir:-

I have received from Mr. Ratchelor a lotter dated Octobor 5th, in which the following paragraph occurs:-

"Now about Moses lamps, I have written Moses twice but get no answer. It was understood by Mayarre and myself and Moses that they should send no 0 lamps to Antwerp and the models to France to manufacture, on this I teld Bermann that they would sond me 0 lamps. Now the fact is I have received here 0 lamps in Peris, and I don't how whether Moses wants has patents protected, as I amnot get a word from him. In the meantime there are pouple erying for are lamps. Will you please tell goods about this and if I dont get any answer from him, I shall simply put them up here and he must look after his patent interests himself. Of course there is no question about the price, but the people here have paid for these lamps, and feel hurt because I wont lot them put them out to the public."

Will you please let me have your answer to same at your

1883-10-20

early convonionce, so that I can roply to En Batchelor's letter.

Very truly yours,

58

ctuber 20th o

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have your letter of the lith, inst, and your telegram of the section of the section we sent you.

In reply we would say that the long upright from door can be put in party wall with safety by placing a tight weeden door outside of it. I attach a sictch and explanation which I trust will make the matter clear, and convey to you the way in which we understand the matter and our solution of the difficulty, which latter we would prefer adopting instead of londhening the beiler roce, and we trust you will give it your consideration and avoid making the extension referred to.

In reference to grate bars for the Brockton regions, or have to-day sent to an Sprague a bill of lading, and they went forward on the luth, inst. We have an invoice from Bosars.

Babeech & Walcox charging us with these bars, and as the cost is

Sus, we shall be glad to know, if, in your epinion, we should juy the amount. We think we understood you to say that there was spine defect in the bars supplied with the beller, and that these

had to be sent to reglace them. desire to refute the charge.

Yory tral; jours, Zuk

3

C. H. Cooka, Esq.

Clobe Notel,

Syracuse, N.Y.

Doar Sir:-

We have received four latters of the 17th. inst., torether with map and canvass of Auburn. When we are through with the former we will return it to in D. M. Osborne.

We wired you to-day to canvass Endson and Loughkeepsie on your way to Mew York.

In reference to counting the number of lights in each store once on Saturday night in order to get the difference in the amount of consumption or that evening from the balance of the week, we consider that your canvass should embody this information, and shall be glad if you will always cond it to us in places where there is such a difference as you mention.

Yory trul; yours,

2ak

0ctober 22nd, 1883.

Gustav Seldan, Esq. Supt.

Edison Machine Works,

104 Goorck Street, City.

My Doar Sir:-

I find that your system of charging everything up to stock and themscharging it out ugain to various orders on which the machines are being stated one not work at all well so far as my office, is concerned. We are having endless trouble is trying to decipher the alloged memorandumof material used, which monorandum are propered by he bodge. If the system, which I inaugurated on your suggestion, is persisted in it will result in an extra expense of about \$50. a week so far as my clorical force here is concerned, and such an expenditure is entirely out of the guestion. The petter of the two, and I write to inform you of this, as when I got back to town the endoof this wook I wish to arrange with you to return to the old method of steel keeping.

Furthermore, when a few days back Mr. Edison enquired of me the mothed new purceled as to this matter, I informed him that we were dependent for the charging of our material entirely to memorangum prejared by Mr. Bodge, and Mr. Edison politicly informed me that enger such circumstances he would not consider my books worth a damned. As he has absolutely no confidence whatever in any statements proposed by Er Dodge. No gives as his reason for this, that Mr. Dodge made so many mistakes while engaged in the marking department of the Edison Electric light Compan, and all of which mintakes were of such a character that it would be impossible for him[Mr. Edison] to have any confidence whatever in the work of any one capable of XMXXXXXIII such mistakes as I refer to.

Yory truly yours.

C. F. Bruckett, Esq

Frinceton College,

Franceton, N. J.

Deenear hr. bruckett:-

I beg to acknowledge with thanks your letter of the 18th. inst., which we once before received without signature.

I should turn great plausure in going to Frinceton to see your dynamemeter in action, but unfortunately my present press of business prevents my leaving New York. I have asled Mr Clarke, the angineer of the Edison Electric light Company, to go to "Frinceton and examine the instrument.

Very truly yours

Jaky

October 24th. 184 3

Gustav Soldan, Esq. Supt.

104 Goorek Street, Gity.

Doar Sir:- -

In relation to the flexible cable used on the "is" dynamos, we consider that this should be more thoroughly ensulated. The resent inculation is liable to wear off and cross the poles on hase, and we shall be glad if you will give this matter your consideration.

Yoursttruly,

2 ahry

Cossrs, Lorgsonn & Co.

203 Avenue t, tity,

Doar Sirs:-

We are informed that you are sending fixtures to brockton wired with white wire without any tape. This will cause
very serious trouble, as the covering absorbs moisture and causes
a decided load, and since this defect has been regarded by everytap who has had any experience with the wire, we consider it very
bad pulley on your fart to supply such material, but fool sailsfied that when we call your attention to the matter you will have
it adjusted.

Very truly yours,

3

W. J. Jonks, Esq. Surger,

Edison Electric llluminating Co.

Prock ton, Rass.

Dear Sir:-

Roplying to your favor or the 17th. inst. to an Edison,

soon as he can leave sew York.

but we expect to see him out again to day or to morrow.



F. J. Sprayue, Esq.

Hotel Belmont.

Brockton, Pass

Dear Sir:-

In relation to safety entenes, we her to say that the white plurs are all right. Forgmann sont a let of had plugs to brock ton semetime are, and in our opinion those each to be returned. If you will hant these up and sont back again weewill have them replaced by new ones.

Taky

P. B. Shew, Esc.

Williamsport, Jenna.

Donr Sir:-

We beg to return berewith letter from Mr Schwenk in reference to ft. Carmel received with your favor of the 20th. inst.

The are having a converse made of this place with all posnible despatch. Our converger is at the moment in Hazloton, but will in a day or two po to Mt. Carnel and send us the necessary data to got up plans and estimates.

In regard to the people at that point having secured the ground for a central station, we consider it rather a mistake to be too premature about a matter of that kind, as the location of a lot may make a considerable difference in the amount of our estimate.

In regard to my going to Mt. Carmel to etake off the building or for other jurposes, at the moment it is impossible for he to loave New York, and in any event I hardly think that the laying out of the building is such a serious undertaking as to require my personal attention.

We will rush this matter through just as quickly as possible, and write you again when we have something definite in connection with the estimate to submit.

Very truly Years,

Enclosure, D.

F. B. Shaw, Eso.

Williamsport, Penna,

bear Sir:-

We beg to emilion a letter from Dr N. C. Sticker the Chief Purgess of the town of Milton, Pa., in which he enquiries about the cost of the electric light. As it is in your torcitory [2013] we presume attend to it.

Very truly yours.

Taky

Enclosure, H.

M. F. Moore, Esq.

City.

Door Sir:-

In regard to Sr Galley, I shall be glad to do what I can to got him a situation.

I think the German Company asked for a meterman, and it would be a good idea for Oakley to go to corganan's and George Street and Jearn all about making motors. We would also have him coached in the interests of the commercial part of the business, and when he has completed his education we can then send him to replin.

very truly yours.

Jak,

Cetober 24th

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We beg to emplose you herewith duplicate bills of lading tegether with shipting list of the Fall River beilers which went forward on the 22nd, inst.

with relation to fired-rick, we would like to know if you use any firebrick lining in your stack foundations? You will notice that in all of our estimates we include 14? of brick stack with this description of lining, but if in practice this arrangement is not observed and if you do not consider it necessary would like to know about it in order that we may in future leave it out. Afthe leaturate

Very truly yours,

Zae,

W. D. Rich, Esq.

care Edison Flectric Illuminating Co.

Fall River, Bass.

Doar Sir:-

I am in receipt of a lotter from he Spranue at brockton, who mays that they had make the loth and to account of the exhausts from the dynamo everflow pans leading into the empire exhausts. The drap pape races after leaving the characteristic and a second or all the exhaust and incommentation of the exhaust and incommentation of the exhaust and incommentation of the second entering this is measured forced into the everflow pans on the dynamon and large quantities of rator are threshoot from the exhaust, after being larted not less than there for the she at a fraid that some day the consequence will be very scrious. The drip should fall instead of rashed, so that the exter ample run off, and I wish you would limit now the master your machinists attention.

Very truly yours,

Ball Engine Co

Eric, lonna.

Dear Sirs;-

toplying to your favor of the 17th, inst. in relation to our making a trial of one of your empines, we bot to say that we should be also to make a test of a b 2 x 12 signing, which would require as inch pulley. It would be accessary for us to long this engine one month, and if you are agreeable to bear the exponsed in connection with the text, freight so, we will be also to make the trial.

Voty truly yours;

Jalas

John Campboll, Esq.

lock box 637.

Fittsburgh, Fenne

Doar Sir'-

I have your lotter of the leth, inst., and in refly regret to state that there is no position here which I can error you at the freeent time.

I shall tool your masso torono me and shall be read to do anything for you that I can in my our business, but outside or that I roar my influence with in correct would not attain the end you desire, and Ausmally Speeks better the Communicating with him for this object. Very truly yours,

Taky

Octobor 34th.

J. S. Andrews, Esq.

Franklin louse,

lawrence, Mass.

Dear Sir:-

would say that we have referred that fortion which relates to the sarety easeh thush muta to the proper parties for their attention, and have written on Soldan in regard to the flexible cable on any dynamos being more thoroughly insulated.

It is not our intention to send a lightning arrester for lawrence, as the system is underground and does not require it.

The motor scales are quite large enough to weigh 100 ligh

Very truly yours,

Jaky

William Purroughs, Esq.

40 Broadway, City.

Door Sir:-

Would you kindly call at this office any time you are passing and can find it convenient to step in, as 7 want to see you about placing our froight in your hands.

· Very truly yours

Jaky

Very truly yours.

October 34th.

3

7. S. Andrews, Esq.

Pranklin Pouse,

lawronce, wass

Door Sir:-

We have your letter of the 16th, inst, in relation to the connecting up of the fields of the 40c and 80c light dynamos together, and in reply her to say that we will have these boxes made so that they will so together.

In regard to having feeder switch and safety catch relder in one piece, I do not think this would always be found to work well and should advice keeping them separate.

Very truly yours,

Jaly

Getober Zith.

George W. Wilbur, Esq.

lost Office.

ht. Garmel. Fo

Doar Sar:-

We have your letter of the flat, inst., and in reply would say that your canvass books are not quite completed, but we have to be able to send them to you in a day or two. We ordered show to be made with 150 pages and also instructed the printer to leave more recently against a ma "sature of business."

The kt. carmed poulde brovery anxious to have an estimate for an installation at that blace, and we wish you to get the carries in the errice here at the carliest possible moment.

very truly yours,

William Schwonk, Esq.

Mt. Carmel, Fenna,

Dear Sir:-

to say that the curvass of his darmed will arrive in this office to say that the curvass of his darmed will arrive in this office in a day or two. The maps will then be put in shape and the estimate made and forwarded to in Shaw in a very short time.

Untill we know the size of the limit required, it is impossible for us to make any comments is to the engines or other material that

ory truly yours,

3

najor s. b. sator

City

Dear Sir:-

Referring to the attached we ben to say that there was no mistake in the plans of the Pall River building. We had this building so arranged that it would secundate the extra boilers necessary to be supplied when the time case for increasing the capacity of the plant, but this we arranged in such a manner that to clean them out it was necessary to entay them from the top "which is a yery common thing to do. The Pall River people thought that they would prefer to have them so arranged that access could be acquired from the sides, and as it was merely a question of obliging these gentlement decided to yield to their views and consequently gave instructions to have the building lengthened six foot, which has been done.

Very truly yours,

Zar

fortland

October 28th.

3

Kossrs, Harris & Robinson,

Room 2, Trust Go's Fullding, Hartford, Conn.

"Doar Sirs:-

We here to onclose you herewith estimates for the installation of Edison Electric Hight Central Station plants at Hartford and Southington, conn.

The former is for # 3200 lamps capacity with street installation for 4452 lights and amounting to \$72,653,254 and the latter for a plant of 950 lamps capacity with street installation for 970 lights and amounting to \$20,030.40

Our bid for the stroot installation in the Southing estimate is Sax based upon the same conditions as not forth in our letter to you under date of the 22nd. inst. You will notice that the cost per lamp in this estimate is Sal.71, which is 37.44 less for lamp than the doo light plant, and further it only costs 33,142.71 to increase the capacity of this plant from doo lights to 630 lights, which is almost three quarters larger. In view of these facts we would strongly advise the adoption of the 530 light estimate as being the end more satisfactory in all respects.

In relation to the Martford estimate, this is based upon the assumption that the control station will be placed upon

the \$10,000. let, the size of which is du x 40 and situated North of Allyn Street between Ann & Trumbüll Street. We explained to your Mr. Marris, when he was in New York, that all our plans for Marrison and been getten out upon the assumption that the let we work to use was to be 30 x 40, and that if the 60 x 40 let wis admittated it would necessitate our cutting off a portion of the building which would admit of the plant being increased to 4600 lights only, unless it were possible to get more land when required at the back, so that the building might be extended. The cost per lamp of this estimate is 322,70 which, without taking into consideration the very lange number of lights covered by our proposed district, namely, 4493, is we consider a low bid.

that we enclose statement of the daily running expenses and probable profits on a capitalization of \$30,000. For a 400 light plant at Southington. Were you to install the USO light plant, the increase in the daily running expenses would be so small as to hardly be visible, while the per cent for dividend on the capital invested, which latter need het exceed \$30,000, would of course be much larger than that shown on the enclosed statement.

[&]quot;In the chelosed estimates together with a plan of the arrangement

of the Southington station.

Yory truly yours,

Enclosure.

October 26th.

. .

.. v. sprague, asq.

Hotol Bolmont,

Brockton, Mass

Dear Sir:

I onclose you herewith lotter from Un Batchelor of Faris in reference to the possibility of working more than two amperes per millimetre on the underground conductors &c.

Please give me full replies to all of Mr. Batchelor's questions, in order that I may transmit them to him, and also return his letter with your monographies.

Very truly yours,

Jai

Enclosure, A.

Frank H. He. Commick, Esq. Prest.

Edison Electric Illuminating Co. of Sunbury,

Williamsport, Ponna.

Doar Sir:-

We are in regent of your favor of the 3rd, inst., and in refly ber to say that we are not in the least surprised to hear of the number of broken laws in connection with your system at Suntage.

who have received information from our areat, in commit, whom we sent to inspect your plant and ascertain the cause of such breakare, and we find that you have been running these large not at ten candle power as they are intended to be run but much nearer twenty. If this course is pursued you cannot but expect to have a very large per cent of breakare. The large we sent you were some of these made up a short time since at the factory and the best that we have yet produced.

When Dr. Det-rlog was here in New York he visited this office, and during the course of conversation he looked at our lamps and asked the candle power, remarking at the same time that they were not as bright as the light you were supplying at Sunbury. Those lamps of ours were giving at least eighteen candles, so it is therefore quite plain to us what the cause has been to result in

2

such a large breakage of lamps as you report.

car agent, who was in Sunbury a few days ego, advises us that Hn Harr gave positive instructions to the engineer in charge of the Sunbury station to run the dynamos to their fullest capactly. He (our agent) explained to the engineer the disadvantages attendant upon such a proceeding, and regulated the lights.

of light equal to ten cambles for each last installed, you sill rind that your broukage sill decrease very rapidly. It is much cheaper if customers want more light from single last to supply them with an article designed for a more extensive illumination, but to try and get twenty cambles from an article which is only intended to supply half that number is fatal to the long life of the last.

Trusting that in future you will regulate the light

Vory traly yours,

Jaer

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chomas P. Conant, Esq.

care Edison Electric Illuminating Go.

Shomekin, Penna.

Door Sart-

This will introduce to you an 1. C. Walker, whom I am somding to Shamolin to obtain whatever information you can give him in reference to our system of house siring or anything olse he may desire to how. On haller will bring with him samples of the now were which we are going to use, and he has such instructions from no that he understands the application of it, and I shall be glod if you will give him all facilities possible to enable him to obtain whatever information he requires.

very truly yours

Jac

W. F. Bouty, Esq. Frest.

Edison Electric Illuminating Co.

Shamekin, Forma,

"Door Sir;-

We have your letter of the 23rd, inst. complaining that the cystem at Shamelin has been working badly.

We received a letter from an commant explanation the cause, and it expenses that a number of trees have been retting mixed up with the wires and causing croses on the line. This or course is a matter which can be very easily resedied by having the trees of the received or transed, so as not to interfere with our system.

on or also advised by kr. Conent that the newernor on one of the enrines was working badly, and so wired him to have it tuben off and the flange brightened up, shieh will relieve all trouble.

We do not see that anything has been row which would necessitate our sending unytedy to show with the parties there at present are fully competent to deal with the difficulties which have arisen.

Vory truly yours.

Tale

October 28th.

J. F. Rugers, Kage.

63 India Square,

oston, Hass.

Door Sire:-

We have your latter of the 25th, inst., and exect application for the delay which has talon place in supplying you with the duplicating inl. It is an article which we have not dealt in for such a long time that the recipe became explaid and had to be hunted a, which took agest time.

Ye have, however, much pleasure is stating that we be forwarded to your address by express yesterday one bettle of this ink. When you require any more than in we will be able to supply it fore broughly.

Very truly yours

Dar

October Joth.

- 13

E. H. lord, Esq. Treas.

Edicon Electric Illuminating Co.

Dear 17:-

We be to acknowledge receipt of your favor of the high, inst. in reference to a metersam, and in reply would may be that we very much regret the delay which has taken place in furnishing you with much a person, but as this hind of a man is not fitted up anywhere and we have had considerable trouble is finding one. We have pleasure in stating that we have, however, succeeded in securing the services of a first class motorman who has had charge of the weedle plant for some time past, and will report for duty at lawrence me later than the last finst, and before that if at all possible.

Yory truly yours,

Jak

- October 29th

F. . Jpton, Esq.

East Nowark, W.J.

Doar Sir:-

In relation to broken lamps received at avocation, do

you not think it shall be a good idea to pack a half a dozen lamps
and handle them roughly in the laboratory, that is experiment on
different manners of racking

Yours truly,

Dak J

October Buth.

Pilamen

W. J. Garrison, Esq.

137 Foderal Street,

Boston, Mass.

Dear SECURITISON:-

DOG! BENEETISON:-

In reply to your latter of the and inst.,

"asling about the Dart Sleerie Railway, I should advise you to real

"your friend not to put a cent into it. It is simply a "catch".

Yory truly yours.

)

October 20th. 3

George H. Hopkins, Esq.

137 Temple Court, City,

Dear Mr. Hopkins:-

Many thanks formyour letter of the 26th, inst.

the pair of the American Institute. I shall have such pleasure

Very truly yours, .

20kg

October 20th, 1883

Gustav Soldan, Esq. Supt.

104 Goerck Stroot, City.

Dear Sir:-

There is a paragraph in Defect Report No.54 to the effect that the wire bands binding the armatures got loose and cone off on the machine which we installed at Harrison, Havemover & Co. shortly after starting. These armatures should have wire bound around them as in the central station machines. We never had trouble after we did this, and if you want any further explanation Milly Wright can give it to you.

Yours truly,

Jak.

October 20th.

A. Stuart, Esq. Socty.

Cincinnati, Onio.

Doar Sir:-

In order to complete our map of Springfield, Ohio, it is necessary that we should have a correct chart of that town. We have written to the City Engineer twice asking him to much a tracing of his map, but without result other than that our letters have remained unanawered. Solid you in any possible way obtain what we require, as it is absolutely necessary that we should have it forcer we can complete our work, and we shall be glad to hear from you at the earliest possible moment.

Very truly yours.

S Jy

October 29th.

W. H. Douty, Esq.

Shomokin, Penna.

Doar Sir:-

We beg to acknowledge with thanks the receipt of your favor of the 23th, inst. enclosing Mr. John Mullen's check on theb Shamekin Banking Company for \$1,000, on account,

In relation to putting your plant in proper shape, we have already written you on the subject, and trusting that you are meeting with no further difficulties, we begin to remain,

Very truly yours,

Jae

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William O. He. Dowell, Esq.

130 Jiberty Street, City

Doar Sir:-

I boy to acknowledge receipt of your latter of the 27th.
inst., and in reply would say that there are so many calls made
upon my jurse and as I am not interested in the Edison lump
Pactory, except as a stockholder, I do not feel that I can comply
with your request.

T return the list herewith, and beg to remain,

Very truly yours,

Enclosure

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John F. Rogers, & Co.

62 India Square,

Boston, Pass.

Doar Sirs:

We are pleased to see that by your letter of the 27th.

In relation to an invoice, we cannot not a price upon what we have forwarded you, but will arrange with none stationer in liew fork for the manufacture of the article and will advise you as to where it can be precured in future.

Very truly yours,

Dak

3

E. S. Marsh, Esq.

23 East 23rd. Street, City.

Doar Sir:-

Referring to your favor of the 21th, inst., I beg to answer as follows:-

FIRST. The Phonograph is an invention of mine, but nothing has been done such it for the last few years, as my time has been so fully occurred with other matters that I can hardly say mether I shall be able to give attention to it further on.

SHOOM. Electricity is already supersodian and performing the present functions of cas and Steam, but her least it still take to determine anyonity of the business it is deficient to say.

THERE. I must refer you to the books for theories about the dature or electricity.

POINTH. my laboratory is practically closed at the present time, and there is nothing of any considerable interest to a student being done there.

Yor/ truly yours,

W. Froston Hix, Rsq.

336 West Main Street,

louisvillo, ly.

boar Siri-

of Greene and Alleysbetween Second and Third Streets, upon which is situated an old bring the streets, upon which is situated an old bring the streets at 100, price \$11,000, together with shotch of mane showing the position of the house in relation to the Sougharies of the lot in accordance with the spaces marked for distances on the slotch below.

Vory truly yours,

lae.

W. Iord, Esq. Trons.

Edison Electric Illuminating Co.

lawrence, Sass.

Dear Sir:-

We have your letter of the 27th, inst., and in reply bor to say that we have mode inquiries from the makers of the balance, which we sent to lawrence, and find that you are right in stating that the capacity does not reach the grazues,

We will order for the use of the lawrence company The balance to replace the one you now have, which latter we can use where 100 light meters are not called into requisition.

In relation to moters, we understand that your order No.1 called for fifty meters of 12 lights, twenty five of 23 lights and five of 30 lights, but indefined as we considered this arrangement both unequal and insufficient, we downed it advisable to make a give arrangement and supply you with a certain number of each of the different units, the aggregate cost of which would be the same as those which we first proposed to supply. We shall, however, have such pleasure in complying with your request to exchange the 12 light meters for an equal number of 35 lights capacity and the 25 light moters for an equal number of 30 lights capacity. We will also have the homessary plates and vubber parts

2

for the 12 light motors cent you without dolay.

We presume you understand that the caracity of these meters is gauged upon the assumption that each light to be recorded by them is of 10 candle power, in other words, a 6 light meter is capable of recording ten 10 candle lights, a 12 light meter records many 10 candle lights, a twenty five light records forty 10 candle lights, a fifty light records oughty 10 candle lights and a one hundred light meter will record one hundred and sixty 10 candle lights.

Yory truly yours

Zal

W. H. Dwelley Jr. Eng. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

hear Sir:-

stating that Fruezi's men have been ordered home for ten days, and in reply to your query as to why you are being neelected we been to say that inamsuch as the tubes will not be ready for ten days, we do not see the necessity of keeping a lot of men laying dele in Pall River and paying their expenses. You can rest assured that we are fully alive to the necessity of pushing your work and this we are doing to our utmost expacity, but we must really ank your will end to our utmost expacity, but we must really ank your are doing to our utmost expacity, but we must really ank your alittle patience and placing a little more confidence in our capability of keeping the premises we have made to you, namely, to have the Fall River installation completed at the carliest posseld a memont.

We are in receipt of your telegram of to-day's date

Vary Engly vouces

7. H. Bout/, Esq. President.

Edison Electric Illuminating co. Ponna. Shamokin.

Donr Sire-

I have your letter of the 30th, inst.

I am very sorry that you should object to the use of the double wire at Shamakin without first ensuring of me as to the facts. The New York Board of Fire Underwriters do not trouble us in the least, except incide of New York City. In towns like Shamokin they do not interfere with our business at all, as the property involved is comparatively small and, furthermore, I am confident that eventually they will sanction the use of the wire "sont you. So far they have not refused to sanction its use, and the matter has simply not been brought before thom. I think that you make a great mistake to refuse to have it used at Shamokin. Very truly yours.

C. E. Spoirs, Esq.

care D. Van Nostrand,

23 Murray Street, City.

Dear Sir:-

will you please let me know per bearer where we can

"find "Archives of Pharmacie"?

Very truly yours,

Toudenen lat

Thomas P. Conant, Esq.

Tonyors National Fotol.

Shamokin, Ponna.

Onar Siri-

I send you by this mail a copy of the questions on dynamos and engines and bullers and shall be glad if you will occupy your time by contributing to the literature of this establishment by answering same.

Vory truly yours,

رگ

Movember let

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition,

Louisville, ky.

Dear Sir:-

I send you herewith a set of questions on the meter, dynamo, emaine and boiler. Will you please answer same to the heat of your shillty and them back to us at your convenience.

Very truly yours,

3

Nevembér lst

W. H. Dwolley, Jr. Esq. Treas.

Edison Electric Elluminating Co.

Fall River, Hass.

Dour Sir:-

Your favor of the "lat, ulto, case to hand this sorning, and the tone of it surprises so extremely. You refer to sin knucsi subjecting you to delays as if he was doing so intentionully. Cannot you understand that it is impossible for his son to be of any use in Fall River datillhe has the second theor ready to lay. We are just as anxious as you are to have the plant installed quickly, but so sust protest short deficiently departs the frequency and unreasonableness of your complaints.

Allow no to suggest that it is quite presenture on your part to ank on the first of November how we propose to get your plant running by the endoof covember. I would remaind the that you were warned before the contract was closed that there would be considerable delay unless your tempers guaranteed the cost or the tuber, so as to enable us to order some in anticipation of our closing the contract, and I would further remind you that you presided to send us such a guarantee and that you failed to do so, and any complaint that you now have to make so to the delay should be made to yourself for failing to send us the guarantee above.

coforroging and not against us.

your tubes completed before frost sets in has been sufficiently childrend upon and that a restition is entirely unnecessary, and L would again beg of you to exercise a little patience, inasmuch as working only twenty three days have classed since the contract with your contant was closed.

The work will be done in the best manner possible and will be started as soon as possible. The laying would have commenced at least live days are if the guarantee from you as to the tubes had been sent at the time we usked for it.

To talk of Mr Erwari additing the responsibility or putting off laying the tubes, Seems to me an absurdity. It is to my interest and to Mr truesi's interest that the laying should be commended as early as possible, although my assirtions to this offer do not now to earry any saight with you.

As to none but competent men being employed, I have yet to find that it has been our habit to employ incompetent men, and the troubles that we met with in Lawrence and brockton are such troubles as we fully expect to beet with at Wall River. If you

can tell us how to avoid that I am sure we shall be very glad to resolve your advise in the matter.

Very truly yours,

L

Covember 3rd

3

D. Boran, Esq.

coneral Supe, of Construction,

Western Union Telegraph Co.

Boor Sir:-

on J. Biblor, of 15 Shirman Avenue, Secard, N. J., ban applied to see for a jointion in exemption with the execution of closure light lines, and states that he has had therefore years experience an foreman of gauge, And refers in to you for information as to gauge the companion of companion of companions.

me this information?

Very truly yours,

2ak

November 3rd

. . .

D. H. Bates, Esq.

Western Union Tolograph Co.

. 105 Broadwdy, City.

Dear Sir:-

And J. Histor, of 1.77 Shorman Avenue, desain, J. J., has applied to me for a jointion in commention with the erection of Cleatric light lines, and states that he has had thereon yours experience as foremen of 1.2.8, and refers me to you for information as to his emphilities. Can you so far oblige no by giving up this information?

Vois truly yours.

2ar

Movember 3rd.

3

Richard Vause, Esq.

Hatal Moreury.

Durban, Katal.

Door Sir:-

Maforrine to your favor of the 17th September, which has been forwarded to so by the Lindmons of in Charles V. Miley, the Consul Ceneral of the Grange Francis, Philadelphia, Fenna, I hop to state that possibly my Phonograph might be avuilable for the purpose for which you suggest. It would, however, require considerable improvement before being put to such use, and my time at the present is so fully occupied with other matters that I mainfraid that this will have to stand over until I have more lossure at my compand.

fours yory truly,

Tag.

7. S. Androws, Esq.

dare Edison Electric Illuminating Co.

lawrence, Mase.

odar Sart-

on Oalley, the neterman when I sent on to laurence, was at Comelle for some time. He seemed to answer most of the quantions very wall, but he has not had that experience with our sort which would qualify him to such im extent as comman.

If we love should make any remain with relation to him you might may that we Comman will be to Tearring shortly, as immediately I

can get him away from Shamokin I propose to sond him to you.

Yory truly yours,

Bovember Brd.

Thomas it. Comant, Esq.

Weavers Estional Notel

Shumokin, Ponna.

Door Sir:-

I am in receipt of your lotter of the Mist. Getebor, and I cond you herewith map of the town of Massolin, and shall be all and if you will trace thereon exactly where the present lines u run, and where the feeders join the mains, also indicate on the map the position of the proposed hew line with the position and pre-hable number of maximum lemps at each point marked thereon. We can then have the sizes of wire determined here in the effice. Planna attend to this right army and we will return the map to you in the course of a day or so.

Yory truly yours.

Tau.

Novomber 3rd, 1883.

W. H. Swelloy, Jr., Esq. Treas.

Edison Ricetric Illuminiting Go.

' Fall Sivor. 1

Doar Sir:-

We are in receipt of jour letter of November and., and will have the two 330 light dynamos shifted forthwith.

The torms of regions on which we sell to the Isolated Company and cash on the delivery of the machines. Will you believe advise us as to now we are to get regions from your

land Company

By Al

ovomber 3rd.

E. H. Ford, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Doar Sir:-

in onliny, our notoman, lost hore the day before yearterday for Lawrence, and I shall therefore be alad at you will limity comply with your presses to send me a check for \$10,000. Yours very bully.

2 ay

Joyombon Snd

Societo Electrique Edison.

33 Ave de 1º0. ove.

Paris, France.

Doar Sirs :-

T have your favor of the 17th, October, and in reply would beg to enclose you copy of a letter which I have received from the Prencis R. Unton, the Hanager of the Lang Gospany.

I would point out to you that no guarantee has ever been our riven that the life of lamps would be of 600 hours duration.

I cannot possibly conceive how our lamps should have been subject to such heavy breakage, unless they were run at very high candle lower, as the lamps are of precisely the same character as we are now using in this country and we hear no such complaints here.

Any test as to the life of lamps would of course have to be made in a regular manner, with a constant electro-metive force and the lamps run at the volts they are incomed for.

very truly yours,

Tai

inclosure

Rovembor 5th.

W. I. Iwelley, Jr. Esq. Treas.

Edison Electric Illaminating Co.

Dear Sirt-

In a letter addressed to Sajor Saten by Mn Sponsor Borden of the New England Sajartment of the Edison Electric light Company the following occurs:

whome of our large stochholders are builders by trade and criticise the character of the work brickwork that is noing into the building. An Bow told me within a few days that one of the best massens in town said he thought it was shameful to put a Shillding torother as this is being constructed.

Our Superintendent, In Rich, was here yesterday and we drow his attention to the above, and he informed us that un Jerome Forden, one of your Building Consisted who has taken an active interest in the work, has expressed hisself as being perfectly natisfied, and he also stated that there was no reason whatever for the complaint. As we have not received from you officially any complaint as to the character of the central station work, we shall be glad to hear your views on the above remarks of Mr.

meet with the entire approval of your Company.

Very truly yours,

206

November 5th.

Faul D. Dyor, Esq.

St. Cloud Notel,

Canton, Ohio.

Dear Sir:

Will you please inform me at your earliest convenience how soon you will be through in un Stuart's territory, as I want you to go to New Orleans?

fory truly yours,



C. li. Johnson, Enq.

Mad Avenue h, City.

De Dear Sir;-

I had a tall with he Peiron last might with relation to the tage and for un by the Ambonia Congony, and he requested A had to see you about rotting the most passed on and approved by the Board of Fire Endownitors.

I wash you would speak to him about the matter and take it in hand right away, as our control station business is seriously affected by the coubt existing as to whether the heard will allow us to use the time.

Yours yory truly

S-J PJ W. H. Moore, Esq.

Rahway, N.J

Dear Sir;-

I reserve very much to hear that you are about to sever your connection with the Edison Company for Isolated lighting, and it affords me very great pleasure to testify to your ability and industry in connection with the various matters that you have had in charge on my behalf.

Your trij to China and Japan on my account to hunt for humboo or other fibre was highly satisfactory to me, as evidenced by the fact that you found exactly what I required for use in connection with the manufacture of my lamps. I was also very much satisfied with the services you rendered me during your connection with the Edison Machine works, asypurchasing agent, and have every reason to believe that you have given perfect shifts faction to the Edison Company for Isolated Lighting during your connection with them, but as to this matter, I have no doubt that they will be willing to speak themselves.

Wishing you overy success, and again expressing my regret

that you are about

November 5th.

"Manager."

Western Union Telegraph Office, 852 Broadway, City.

Dear Sir:-

will you please have an American District Telegraph call rut in Mr Edison's apartments at the "Clarendon", luth, Street and 4th, Avenue, If the on you send will ask for Mas, Edison, she will give him instructions as to where the call is to be placed.

Yours truly

PI

3

Revember 5th

A. Stuart, Esq. Secty.

Cincinnati, Chic

Boar Sir:-

I as very anxious to have in yer go to how orleans at the ourliest possible moment, and shall be glas to hear from you as to how scoreyou can spare him. It is a natter of very resit injectance to us that he should be despatched this week, and so therefore trust that you will emseaver to male your arrangements to dispense aith his services for the present accordingly.

very truly yours.

DS.

65 Fifth Ave., New York Nov.5th. 1885

Charles Batchelor, Esq.

Paris, Franco,

My Dear Batchelor:-

I cabled you the other day as follows, *Peculiar about 130, thickness about par, regulation unsalable,
wakeful*, which according to my code with you you will understand
as follows: Edison Electric Light Company stock about 130,

Edison Electric Light Company stock about 130,

ally yory weak.

I have been waiting to see whether an advance would take

place in the price of our stocks but there does not seem to be much chance of one at the present seemst. The depressed state of the general stock market and the great shrinkage in values which has been going our new for mouths seems to have effected such outside things as Edison Electric light Stock very much indeed. When the capital was increased to \$1,000,000., seem few wooks back, the stock went down about seventy five points, which was of course to be expected owing to the increased capabilization.

Isolated stock has greatly fallen until it has get to quite a low point. I had expected that in stead of a decline we should have had a rise in prices, and I based my belief on the improved state of our business, the development of the central station business in small towns and the excellent footing obtained in the first district, but of course the troubles in wall Street, where every-

thing has been going to the "dogs for senetime passi, besides one's calculations in relation to advance in prices, and under the carciumstances I do not know exactl, what to do for you, and consequently thought it best to cable you the state of the mariet.

I wish, on receipt of this, you would exte me in relation to the matter, inassauch as I leave here for london on the lith. December, and would not have time to de mighting much for you if you wait to write to me. Of course when in london I shall run over to Paris to see you. I am gaing over primarily for the object of spending Christman in Jondon with my folls, as it is three years since I dans here, and I thin my business is in a better shape now than it has been at any previous time and therefore Edison will suffer the least possible inconventeed from my absonce.

Now for a few remarks about our business.

nown fown station. I do not know whother you have heard that the down town district went out one hight last week, the lights were out for some two hours. The cause of the failure was given out to be that the safety catches had all melted in consequence of their being large enough to carry only the Summer load, and the man who had charge of the safety catches was under a sespograce and discharged. Unother this was the exact cause of the trouble or not I do not know at present, but I will doubtloss be able to tell you about it in person when I we you. I was away in Cincinnati at the time the trouble occurred, and therefore I am not at all posted an to the cause thereof. As I understand from Johnson

first one feeder safety catch gave out, which throw the load on the other eleven, then another gave out and so on until there was only one feeder connected, which of course "busted." Strague is now engaged with Edison down at the Central Station looking into the matter. There is no serious trouble, I do not think, and the district was running again all right two hours after. it may seem to you a little "gassing" for me to say so, yet truth compels me to record that the day after the broakquye we had more new audications for light than any day previously. now connected up in the First District over 10,000 lamps and our load in the evening is about 5,000, and the average lighting for the whole twenty four hoursboing about 1,100 to 1,200. come over in Pecember I shall bring with me for your private information figures as to how the station stands. If the showing is vory fine I will bring an official statement which you can make use of.

Out of Town Stations. We have now got running Sunbury, Ia. station, 360 lights, Shemolin, Ia. cickion, 1,600 lights, Erockton, Mass.

Hass. station, 1,600 lights, Therefore stating 3,200 lights.

Pall River, Mass. station, 1,600 lights will be running about the ond of peromber; Tiffin, Chic station, 1,000 lights, will be running about Christmas; Kowburgh, K.Y., 1,000 lights, will be running about the same time. These stations aggregate about a quarter of a million of dollars of contral station contract work. We have got a number of others coming along, and next Spring we shall undoubtedly do a very large business indoor in this kind of

work, so you see that our anticipations of large business, when you were here, are about coming true, and I think by next Summer we shall have a great deal more than we can comfortably handle.

Wachine Worls. Soldan was put in Doan's place at the Machine works. He has not got that onormous amount of power which bean had, and I thind it is a good thing that he should not have it The office of the Edison Machine Works is at 65 Fifth Avenue, that is in our office here, and its finances and everything in relation to its business is running very well. We order material from here, and I make arrangements from here with the people we buy from. The Superintendent of the Works builds machines at Goorek Street and takes charge of his men and there his functions one We had a thorough examination of the books made but there was nothing in them which we could call irregular. The only thing which we could not understand, and which we never as yet have been able to got at the bottom of, and which I do not believe we will ever get at the bottom of, is the enormous prices baid by Dean to his men on contract work. The men who got most of the "boodle out of these contracts were boon companions of Dean, and they swoar that he never got a cent from any contracts that he had with them for this work. It seems incredible that such should be the case, but I do not see any ressibility whatever of going bohind the statements of the men. I have had private detectives at work. I have threatened and promised and buildozed but noth will soom to got out of the men the facts about the case. although I cannot get at the bottom of the matter. I a

confident as ever that Hr. Dean had a large "divy" with his men on contracts. I found that Dean borrowed money right and left, and that everybody that surplied the Machine Worls with goods were subject to most abuminable blackmail and that Edison was fast getting a very bad name, as Dean gave the impression that Edison was fully aware of his (Doan's) private dealings with the peoule the Machine Works bought from. I also discovered that we Dean "" had stolen about \$200, worth of scrap, that is he had had the" seven taken from the works, sent to a man in Brooklyn and received himself the cash for same. Although it might have been possible to indict Mr. Doan for constitucy for receiving commissions, we were advised that our case would be a very flimsy one, not that we wanted to bring the matter into court, but we wanted to have something that we could hold over bear if he got obstinate, but of course when I discovered the stealing of scrap, although it was a comparatively small amount it was quite sufficient for my On last year's orders, which you may remember was a very large one, Dean had due him about \$9,000., the amount of seven per cent profit of the job which Edison promised him. my policy was to save the Edison Machine Works any such sum, and Mr. Dean's stealing scrap gave me the opportunity. We have now in the safe a release, from Charles 1. Dean to T. A. Edison and Charles batcholor, trading as the Edison Machine Works, which sots the Lachine Works free from any claim that Dean say have had, so is a clear saving of \$5,000, after getting rid of him.

had to deal with Recap. I do not think that he was guilty of any criminal knowledge of what Dean was doing. I do think. however, that he shut his eyes to cortain irregularities which I noticed, and wking first Jed me to make my first inquiries which resulted in my reporting the matter to Edison. Rocap's defence is that Edison stood up for Dean against everybody, and that he (Rocap) reported several matters to Edison at one time which Edison refused to take any notice of. Anyway Rocap had to Ro. of co-operating with me for the last two and a half years he has persistently and consistently put every obstacle in my way to prevent my getting information at Goerck Street, notwithstanding the fact that when he was ongased, it was perfectly understood that he was to work under my direction, and I think if I had had a little more co-operation at the backine Works, I might have not to the bottom of the trouble earlier. Mr. Rocap also had an unsettled claim against the Machine Worls for \$1,400, in connection with NAMER the same deal as Boan, and Rocap started to threaten suit against us for the amount. I had advised Edison and he had agreed to pay Rocap, but as soon as the threat to start suit was made, I got Edison to allow me to take the matter in hand again, and I am now engaged in an effort to delay payment to Rocup and save a possible thousand deliges in settlement. If I succeed it will be due to a smart young lawyer who is handling the business.

Thether Soldan will turn out a good Sujerintendent or not in very difficult to judge at present. So much of his work this Fall has been of an experimental character, and one can hardly judge of a man's capabilities to handle fork chemply and quickly in connection with the Hackins works at the present mement.

Anyway he is honest, attends to his business all the time, and he keeps his shop in apparently very good order and everything seems well systematized.

Jamp Company. Mc. Joughlin has sold his five rer cent interest in the lamp Company to Upton for 312,000 .. This would place the lamp Factory property at a value of about \$200,000. on HI TON'S valuation. Inasmuch as Ofton is running the Factory he ought to be better acquainted with this than anyone else, and if he values the projecty at \$250,000. For the purpose of buying a furthu interest in it. I should imagine that its real value must be nearer 3300,000. At that present time there is about \$190,000, invested in it, \$160,000. carital and \$30,000. borrowed from Upton. Then you remember that for practically eighteen months or two years it was nothing but outgo all the time and that there was an enormous amount sunk in experimental work, which must be looked uron as so much lost, you cannot but come to the conclusion that the lamp Pactory's business is in a very flourishing state. We are goingto put the lamp Pactory into a close corporation with a capital of one hundred shares of \$100, each. This will be done before I go "to Europe. Before this is done we shall put experts upon the "" books and make a thorough examination and balance prior to the business being turned over to a corporation, and I shall hope to bring with me for your information a statement of the Jamp Factory's business, on which you can rely far better than the above

statement

Bergmann & Co. Bergmann & Cols balance for the year ending Soptember is now out and they are \$55,000, ahead on the year's business. Of course this is not in cash but in troperty. as practically all profit of the shops ought to be for sometime to come, owing to lack of working capital. Of this \$55,000, Edison is entitled to one third, which makes \$10,000,, and you are entitled to ten per cent out of this one third, shich makes \$1,800. You have invested in Bergmann * Go's semething over \$4,000; and if they had ample working capital and a division of the profits had been made at the end of the year, instead of it having been loft in the business. You would on your investment of a little over 34,000, have made 21,800, cash. As it is of course you simply make on paper, although the property in which the profits have been invested is valuable. I do not know whether Perguann had done so when you were here, but in addition to the original building, he has bought another lot 25 x 100, which makes the property 125 x 100; and he has built on this small lot a brass foundry and eargenter shop. Pergmann's co. do all the brass wo for the Machine Worls and Iruesi, as well as for thomselves.

I do not know that I can write you any more just now, in fact if it were not Sunday I would not be able to spend the time in dictabling this letter. If you want me to do anything for you or bring anything over, please write me immediately you get this?

As I sail on the "Alaska" December 11th., I shall be in london about December 21st. or \$2nd., and shall hope to be in Paris about the New Year. I have got to leave Jiverpool semetime about January 5th. or 10th., so as to be home before the com-

Yours very truly

Written by Samuel Insull Ko.

Major Frank &c.logghlin,

Park House,

Newark, N. J.

My Doar Hajor:-

With relation to your request that I should make an astimate for the erection of an electric light plant to light the big lend funnel, I beg to state that owing to a sudden rush of husiness in connectior with our central station down town, my time has been so fully occupied since I received the data from you that I have been quite unable to take the matter up. I fear that I shall have to give the greater portion of my time to our central station work for semestime to come yet, and I must therefore ask you to offer my apologies to Dr. Pierce for the delay which will of necessity occur in getting the estimates asked for. The matter is one which I wish to attend to personally, as it is of a special character, otherwise I would turn it over to my engineers for their attention.

Very truly yours,

T.C.

November 7th.

A. E. Boach, Esq.

261 Broadway, City.

Friend Beach:-

Will you please let me know when you think you will be able to publish the article on "Storage Hatterier" which I sent you some time back,

very truly yours,

. .

November 7th

Goorge P. Pliss, Ecq. Suft.

Chicago, Ills.

Doar Sir:-

We have your letter of the 5th, inst. relative to Mondute, and in rejly would say that we consider your idea of allowing the people there to "cool off" a good one.

We have not yet received definite information as to Appleton, although we have been daily expecting it. We also would be interested to know what steps are being taken in regard to Racino.

Vory truly yours,

Jan

Fovember 7th

Er. P. Comant, Fag.

Door Sir:-

Performing to your wish to be removed an Shamekin, I fully appendized with you and tenst that your took?

Will hold out until the troubles at Shamekin are fixed. The ediated everywhing is running misely, I will see that you are removed from the ladd of tough steaks, and if you will only come on here some evening at d o'clock, I will take you up to Delmonico's and region you with such a real as you have not seen in ages.

. Yer, truly yours,

8

Noy. 7th

ic. 7. P. Commis.

Dear Sirt-

I have your favor of the 4th. inst.

and in consequence of the receipt thereof have decided to send /prington 2 Sins' ran on to Shanskin insediately. I enclose you juster from he. Downy which I shall be glad if you will return to be sith such explanation of the troubles as your previous approximation of the troubles as your previous

Very truly yours

Jan

Hovember 7th

Joseph Williams, Esq.

San Joso, Cal

Door Sir:-

Roplying to your letter of the soth, inst., in which you ask if a tolophond could be operated onna railway train, I bog to say that it is rossible, especially if the instrument used is a string telephone.

Yory truly yours,

1883-11-07.

Boy. 7th.

F. R. Upton, Fsq.

Fast Mewark, M. J.

near Sir:-

We have complaints from the Sunbury company about the arsing of their lamps.

Very truly yours,

19

Movember 7th.

A. Steart, Esq. Secty.

Gineinnati, Ohio.

I say in recoipt of your tolegrees of the ith, inst. asking sky definite sork has not been began as presided, such delays are rainous. You must really lowe to us to decide when I shall send a man to a certain to m to start the sork locally. Lancatiately a contract is signed that meant the sork cockences although it may not be visible in the team shows the plant is to be installed. We have quite an exacut of machinery, who we to get out before it is possible to do such sork locally. This has been proceeding and T do not think you have any cause for complaint as to delay at Tiffin. As matter of fact our Supt., Kr. Pich, left Fall Fiver Bonday night for Tiffin, and signs of sork will be visible there in a few days.

Yory truly yours.

Jar

November 7th.

Zillies J. Card, Psq.

Srown's totel

33 Pulton street,

Brooklyn, N. Y.

Door Sint-

There your lotter of Moresber With. If you will apply to lesses derives for the, they did let you the star lotter. They have demands current and will I feel sure give you the feelilities you desire.

Jery truly gours,

Sovember 7th.

3

Samuel Insull, Esq.

leston, Hass

Dear Sir:-

In relation to lawrence, I beg to say that in accordamen with our Order No.1, as per the item on the attached statement marked "C", the Illuminating company is indebted to us to the extent of 35.734. In accordance with item "b", which I believe was accepted by an lord, it being the same that you made to him from Brockton, they owe us \$1,255,20 Item "B" is for the extension of the mains on the North side of Essex Street, and is the amount in connection with which we had the correspondence with in lord, and he did not appear desirous of accepting our figures for this work, stating that mes contract with Mr. Edison covered the full system to be ordered as they wished. Item "P" is for laying mains to the City Hall, which was not included in our contract, and amounts to \$108.14 The amount of the bill which I attach is for house services, tools Ac., as perfectails shown, and amounts to \$1,242.05, and these amounts aggregate \$12,808.83. The full amount of our contract with the Edison Electric Illuminating Company of Lawrence for street installution is \$10,846. You will notice that in Order No. I the amount for street installation is

.

St, 7784, which is alon "c" on the attached statement, and this deducted from the rull amount allowed in the estimate for stroot installation loaves a mercin of 31, 112, which was to be devoted to considering the system in accordance with our exhibits sont with the estimate, but inacquel as they have ordered inversely thins we approad in the first place to do and they have exceeded that amount considerably. I have deducted from the statement Gloo. For a meter balance which we agreed to supply in Order No.1, and which was charged into the lawrence Illuminating account erronously.

You can make any other deductions you see fit, but as I do not know the amount you would wish to deduct for office furniture, inammuch as we specified none in our estimate and I consider it better to leave this for you. You will see that the amount which the lawrence Company owes us is \$1,002.03 \$22,000 and above our contract with them.

Vory traly yours.

000

3

Semuel Insull, Esq.

Boston, bass.

by Dear Insull :-

you two bills. On is itemized and shows the actual cost to us for the material supplied by kruesi for house services, &c. and the other is the regulation bill with twelve for cent added. which latter I presume you will use for collection. I regret very much to say that I have hunted everywhere to obtain a copy of the Exhibit which accompanied the estimate we sent to the lawrence Company amounting to \$32,572, but have uttorly failed to obtain one, nor can I find anywhere the letter which I am still under the impression you wrote designating the course of the mains. I am very sorry to have to write you this, but it is simply imressible for me to discover where this data is, and you will now have to obtain the Exhibit from Er lord. The course of the mains as specified in our Order No.] is in accordance with Item "C" on the statement which I have attached. I cannot even find bracei's bid for the street installation in accordance with the item (you will understand when I say estimate I mean the full Order which includes Order No.1).

In regard to our lawrence affairs I am sending

2

In relation to Brockton accounts, I have also enclosed two bills, one itemazed for four our information and the other with the twelve per cont added.

I trust that you will recognize the last that this data
is as complete as I can sale it, and at the measur of writing
this I w. in the mass humor as you will be at the measur of
requiant it.

I enclose the learence contract which you may possibly want in settling up affairs there.

Yours very truly,

arey

November 7th

_

E. H. Pord, Esq. Treas.

Edison Electric Illuminating Co.

lawrence, tass.

Bear Sir:-

We beg to acknowledge with many thanks receipt of your favor of yesterday's date enclosing check for \$10,000, on account of our contract for the installation of central station plant at lawrence.

Yours yery truly

Jac

Nov. 7th.

Pr. M. Mard Leonard.

Brockton, Bass.

Dear Sir:-

I have yours of the tith and must request you to stay at Brockton for the present and not to come to Hear York before roung to Jarrense until you have advices either from this office or from ir. Insull who will be Fast during the next few days.

You are mistaken if you think we want you to go to Goerck street to experiment. We desire you a stay at such station as you are sent to until r request you to go classhops.

Yery truly yours,

Jak ?

Nov. 7th.

kr. Frank S. Barr,

Sumbury, Pa.

Dear Sir:-

I have four fayor of the Ord. of Movember. relation to the charge for 33 candle lasss. I would beg to say "" that the average lighting time for the 305 days in the year is at G o'clock in the evening. Hotels want the light until 2 A. N. This makes 0 hours at 1 4 cents per ten candles per hour. The showing would be 3 4 cents per hour or 30 cents for the 3 hours. This would give you about 3110 for the 365 days of the year. If you charge \$50 per year it sould be at 'he rate of about 1 16 por thousand feet of coul gas. You might make a contract at this rate only by the month with the privilinge of stopping when you get loaded up and have an opportunity of taking botter consumers." I agree with you that the extension of your mains should take place before the cold seather comes. If you will please have your moter man mark upon the charts sent herewith exactly where the present mains run and there the feeders run as and also mark on the chart where you propose running your new mains, I will have calculations made and let you know exactly what size of copper wire should be run for the extended circuit. I cannot understand why your lamps are so. Very truly yours.

Tar,

November 5th.

A. Stuurt, Esq. Secty.

Cincinnati, Chio

Dear Sir:-

Replying to your lotter of the Oth, inst, in reference to are lights, we bor to say that we have an are light are that can be worled on our circuit, but not nearly so economically or nutisfactorily as incandescent lights of large power. Our large lower larges are petting to be excellent in life and economy. We have a new wire and all devices requisite for using it and we hope in a few days to be in receipt of authority from the loard of Fire Underwriters to use it. If we fail to obtain this, which is hardly likely, we should do wiring in the old manner.

In relation to Cynthiana and Maysvillo estimates, we are pushing them through with all possible speed, and will make them as low as we can,

Our Superintendent, in Rich, is at the present mement in Fiffin, and will see that everything is done to advance work there.

Very truly yours,

2

Charles S. N. Smell. Esq., Frost.

a. Y. Electrical Society,

Room 40, W. U. Building, City.

Doar Sir:-

Replying to your letter of the 5th, inst., I ber to say that it would give me great pleasure to comply with your request and deliver a lecture for the benefit of the bembersger your focusity were I possessed of the powers of cratery requisity for such an occasion. The fact of the matter is I never delivered a lecture in my life. You of course understand that there is a very great difference between talking and inventing, and though I have made rather a success of the latter the former is an accomplishment which I do not possess, and I must therefore ask you to very kindly accept my regrets together with my best wishes for the wellfaceout your Society.

Very truly yours,

Jay

November 8th.

Coorne H. Eliss, Esq. General Sup-

Chicaro, Ills

Dear Sir:-

erection of an Edison Floatric light Control Station Float at Reenah, Wis. of 500 lights capacity and amounting to 37,085. together with man "A" referred to in the estimate, showing the course of our proposed street installation, which takes in 606 lights. The estimate is based upon the assumption that the local Company provide the building, power and all necessary shafting, fulloys, hangers, bolting Se, to and including jack shart, requisite for the proper and efficient operation of their station. In regard to our bid for street installation, this is based upon the ascumption that all permits and concessions necessary to be obtained from city authorities or private parties shall be procured by the local Company, to enable us to erect poles and run our wires in accordance with the red and white lines on Exhibit Should they fail to obtain any of these and thereby cause us any additional excess. it is understood and acreed that they shall reimburse us to the extent of the excess. You will observe that the cost for last of this installation, as far as we are

Second the we have to one lose our estimate ite. 30 for the

concerned, ic 313,77 As it only remains for the local company to crost their building, which must only be a small one, the installation is joing to be a particularly chem, one, and we think our last of it full be found satisfactory in all response.

If you come to any definite understanding with these people which would necessitate forms of agreement, we shall be also to sent them.

Yory truly yours,

2ac

Sponcer Porden, Esq.

Boston, Mass.

bear Sir:-

We enclose herewith our estimate No. 34 for the erection of an Edison Electric light contral Station Plant at Eatich, Mass. of 1,000 lasts especity and ascenting to 223,233,36, and under separate cover we send you our Exhibit "A", showing the course of our proposed strent installation, together with plan of proposed contral station. You will notice that the cost per last of this estimate is 223,23, which, for an underground system, we consider yory reasonable. The Newburgh installation, which we have just closed, came to about the name Tiguro.

We also onelose you our estimate No. No for the erection of an Edison Electric light Control Station Flant at Normich, Conn. of 1,000 lights capacity, and under separate cover we send you our Exhibit "A" referred to in the estimate, showing the course of our street installation, together with plan of central station, the details of which are the same as the Eatlek station. This estimate Emounts to \$23,370, or \$23,37 per lamp, which is about 43 course per lamp in excess of the Natick estimate. This excess is accounted for by the fact that our proposed street installation will accommend to \$23,370 lights, whereas the street installation will accommend to \$23,370 lights, whereas the street installa-

tion in Satisf takes in but 1,000. We will send you whomever necessary forms of agreement for electing either or both of these contracts, but if anything is to be done in the matter this wall, impediate steps must be taken, as in a very short time so will have frost to contend with which would of course jut an end to everything in connection with displicitly streets for the jurpose of laying our mains. If the watich or worsich people wish to do that becaused we consider these estimates give results which must be perfectly satisfactory. They will of course understand that by delaying the matter until Spring they will loss a great deal of money by not being able to take advantage of that season of the year when the average burning of light is the longest.

We shall be plad to hear from you as early as possible what steps are beams taken to effect a actilement, and in the mountains we hop to remain.

Vory truly yours

Jac

M. C. Pellnar, Esq. Secretary

Edison Electric Illuminating Co.

howburgh,

We have the pleasure to enclose you herewith revised plan of the Newburgh central station showing all the details necessary for your contractor to have. We trust that the details of it will be accurately carried out, as any deviation would proatly interfere with our arrangements.

Our Superintendent will visit Newburgh shortly to soo how you are gotting along;

Vory truly yours.

Hovembor Eth

ovembar .ceu.

V. Burrows, Esq.

Room lo.

46 Broadway, City.

Dear Sirt-

Will you lindly lot us know the xxxxx thard class rates to Peenah, Wis. and Dambury, Conn. We require these rates for entimating purposes and it will be necessary for you to quote from the (ariff at the present time in force. When we can to easy material we will supply you with the forms you suggested properly filled out, in order that you may obtain special quotations for us on our material.

Very truly yours.

7an

Movember 8th.

Mossrs. Harris & Robinson,

. Hartford, Gonn.

Dear Sirs:-

We have the pleasure to enclose you herewith our estimate No.31 for the erection of an Eduson Electric light Central Station Plant at Danbury, Conn. of 1,000 lights capacity and amount ing to \$25,414.56 On account of having to prepare this estimate under great pressure, is order to keep our promise to you to mail it to-might, it was impossible for us to send a man to Danbury for the purpose of inspecting the streets, preparatory to making a bid for the street installation. On this account the amount which we have estimated for same is subject to revision. br bruesi, of the Electric Tube Company, will go to Danbury this wool, if possible, and certainly not later than Monday, and obtain such data as he may require to enable him to submit a fresh estimate for the street installation, and we will immediately advise you of the result. You will notice that as the figures stand now the cost per lamp is \$25.51, but this is accounted for by the lighting of the district boing very much scattered and necessitating long mains and fooders. In Nowburgh, M.Y., where we have just closed a contract and commenced work, the cost per lamp was about

\$23., but the district was much more compact than banbury and the feeders much shorter. You will see that the comparison between the two estimates would be very favorable, and the seemingly high exercise for long of the banbury proposed installation is vary undistrictorily accounted for by the larger amount of copper which it is necessary to one and the greater amount of excavation required to lay the mains, also the fact that these mains are laid to accompdate 1,271 lights.

Under separate cover we send you map "A" referred to in the estimate, showing the course of our proposed street installation, and if you come to any definite arrangement with the Danbury Company, we will forward you forms of agreement. Under same cover we send you plan of our proposed central station, showing the general arrangement of its interior.

Trusting that these will most your requirements, we are

Very truly yours,

Movember With. 3

H. Ward Toonard, Esq.

care Edison Klectric Illuminating Go. Brockton, Bass.

.

Doar Sir:-

Replying to your letter of the 7th, inst., to beg to say that we consider it would be advisable for you to purchase the lhotometer you mention.

Yours truly

Jah

Ball Engine Co.

Brio, Penna.

Dear Sirs:-

Replying to your lot or of the Skh. inst., we beg to say that we understand that there is some question about patents existing between your Company and the Armington & Sims Company. To are not bound by this latter Company in any way, and we use their enrines because they have given better results in our business than any other engine we have ever tried. In the matter of countershafting, we never, under any circumstances, make use of it, as we consider it to be an impediment to the proper and satisfactory working of our stations.

Have you any opinion of experts that your engine is patent free, if so would you be kind enough to let me see it?

Yory truly yours,

Tak

November 5th.

a

P. B. Shaw, Esq.

Williamsport, Penna.

Doar Sir:-

We have your letter of the 3th, inst, in reference to the brewage of lamps at Sunbury, and in reply beg to say that we have cent an expert from the lamp factory who will ascertain the cause of the trouble.

We have to-day written an ke. Cormick very fully on the subject, and trust in a short time to cradicate the difficulty.

Very truly yours,

Jan

Mt. Carmel

vember Eth.

F. B. Shaw, Esq.

Williamsport, Fenna

Dear Sir:-

We beg to enclose herewith our estimate to 73 for the erection of an Edison Electric light Control Station Plant at lit. Carmel, Fenna, of 500 lights capacity, and emounting to \$14,500. and under same cover we send you man "A" referred to in the estimate, together with plan of proposed centr : station. This installation, as you will see, comes to \$20.12 per lang, which considering that the street installation covers nearly 200 more lights than the nominal capacity of bthe plant and that the instal-"lation is a very small one (in which cases the dest per lumn always runs of high) is a very fair estimate. The central station toomight have been located at a better point, but as you understand the Vt. Carmel people purchased the let for this purpose without consulting us in the matter. The Sunbury installation. we might mention, came to about the seme figure, and we feel sure that when you explain to the At. Carmel continuon about the cost por lump running up vory high in such south sized understand the ease and fall in with our ideas that the estimate is a good one. There is one thing that we wish to impress upon you and upon the gentlemen interested at "t. Carpel as forcibly as is

possible for us to do.it, and that is, that there sust not be a days delay in giving us the order for this installation, if shey desire it to be jut in this Fall. In a very short time we will have front to contend with which would jut an end to all work in connection with excevating for our pole line and foundations. The it carmed Company will or course understand that by delaying this matter until spring they will lose a great deal of money by not being in a position to take advantage of that season of the your when the average burning of take light is the longest.

We will send you to-nerrow forms of agreement filled out and executed as far as we are concerned, and if we get this order at once, we will command work right away.

Trusting you will recognize the necessity of a very

ory truly yours

Enclosuro

November 6th.

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition, Louisville, 17.

Dear Sir:-

We enclose herewith our check to 245 for 875., and wish you would be good enough to return to flow fork at once. Please ware us when you leave louisville, which we trust will be on forday the 18th, inst.

Very truly yours,

Enclosure



November 9th.

Frank H. Mc. Cormick, Esq. Frest.

Edison Electric Illg. Co. of Sunbury,

Williamsport, Penna.

We have your letter of the 5th, inst, in reference to

Dear Sir:-

the breakage of lamps at Sunbury, and in reply box to say that we have sent an expert from the Lamp Pactory to Sunbury, who will very soon ascortain the cause. We strongly suspect that your local manbhas cut some customers in by running the service from the foedor instead of the main. What you should have done was to have ascertained at what particulariplace the breakage occurred, after which the cause of such breakage could be very readily obtained. The same lamme as you are using are in service at Shamokin, Brocktonnand Rosello and give 800 hours. The Lamp Factory's guarantee Is that if run at ten candle power, they will lest 600 hours, and wo know from experience, which is the best evidence that we could possibly have, thatbthese lamps are capable of bearing out the guarantee. . We regret that Wr. Harr should have been so inconsed. on account of the letter we wrote you, as Mr. Conant simply quoted the statements made by the engineer at Sunbury. The Lamp Pactory export will, however, find out the cause of the excessive breakage

Frank H. Mc. Cormick, Esq. Frest.

of lamps in Sunbury and adjust the matter so that there will be no further trouble.

Very truly yours,

. Hovesbor 6th

J. P. Bunn, Esq. Vice President.

Tiffin Edison Electric III. Go.

Tiffin, Ohio.

Dear Sir;-

We have your lotter of the Grd, inst. asking us to mame a date when the Miffin installation will be ready to supply light. In reply to that duery we would say that the work on the station has already been emmenced there and that its excellation will not tide more than twenty or twenty five days. The ware for the pole lines will be in Miffin in about ten days, and this work can proceed in amount with the work on the station, and should be concluded about the same time. We do not like to state positively that we will have the plant running by a certain time, but we want you to feel assured that xxxxxxxxxx we will do everything in our lower to most your wishes and have it running about the luth.

In relation to lighting the public garden you speak of, as far as we can tell from the incomplete information given in your letter, this appears to be in block 40. We are to submit a proposal to so Stuart for lighting this block, together with some other blocks, and when that has been received it will give you the

information you desire on that point. We trust you will understand that it is our desire to meet your wishes in this case and that the reason that we do not promise absolutely to start on the 16th, becomber is that there are so many points to be taken into consideration in making a promise of that kind that we consider it better for ourselves and for you to place the matter in the light we have, notwithstanding the fact that we feel reasonably sure of being able to meet your wishes.

Very truly yours

V. S. Hastings, Esq.

15 West 50th, Street, City.

My Dear Mr. Hastings:-

I have been receiving since last Wednesday very prossing telegrams from Bessrs. Harris & Robinson asking me to attend a meeting at Southington to-morrow (Monday), and I have repeatedly telegraphed them that it is simply impossible for me to do so, and yet they persist in wiring me to attend the meeting. Now after I got thore I do not see what good I can do, inasmuch as the license contract with the Light Company has not been closed yet. Harris & Robinson say that the most important stockholder leaves Southington for the South on Tuesday morning. and I think it is more a matter of the light Company's than the Construction Department's for the present, as I am positive, from my experience elsewhere, that after I go there there will be a lo of usoloss talk, and I will have to go later on to get my contract I have besides very important business to-morrow, having been out of the office the whole of last week, and I write to ask if you can go to Southington on the eight o'clock train to-morrow morning. If so, I would like to see you before you go, and I will come up to your house or I will meet you here anytime

this afternoon, after which hour I do not know whore I shall be.

> Will you please let me hear from you by bearer. Yours very truly,

Movember 12th.

Paul D. Dyer, Esq.

Warner House,

Chillicotho, Chio.

Door Sir:-

I have your various Totters from Canton. I am very anxious to have you go to New Orleans as soon as possible, and I want you to havry through on Fr. Stuart's work. You must finish with him by Saturday next at the latest.

Very truly yours,

19

3

J. G. Oliver, Esq.

Toronto, Canada,

Door Sir;-

Noterving to your favor of the oth. inst., I beg to inform you that my experiments are in the main confined to incandement electric large, and the substance you mention for carbon joints for are large will therefore to of no use to me.

Very truly yours,

2aa

A. Stuart, Esq. Socty.

Gincinnati, Ohio

Doar Sir:-

Your letter of the 4th, inst. came duly to hand.

We are delighted that you should recognize the fact that it is quite true that we cannot supply estimates unless we have the data whereon to work. Wiffin work was started issociately the writer got back to now fork. We you not know that there are several things to be done in connection with material before we can have men on the ground actually at work in the town itself.

We are justing saysville and cynthiane estimates as quickly as justifie, but I must remain you that we have a few towns outside of your terratory (that we have to estimate on.

That despatch about it. Edison going to louisville was received during the writers absence from town. That lets the liviate Secretary out, but it was answered just as moon as Mr. Edison could be get axis at by the Frivate Secretary's assistant.

If you did not not the reply you must blame the Western Union Telegraph Company and not us. I doubt very much whether mr. Edison will go to louisville at all. It is probable, however, that kajor Eaten will go South Sematine within the next wook or so,

Why don't you give us some more contracts, which is after all the main encouragement to us to keep plodding away at estimates One little contract of \$16,000,, which required a week of the wtiters time to get executed, and a trip of something like 650 miles, is hardly sufficient to justify the heavy investment we are making in canyassing, estimating and such like on your behalf. Where are those other two contracts that you said we should have within a few days of my leaving Cincinnati?

Very truly yours,

Hovember 13th

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Doar Sir:-

important that in Byer should leave your territory by Saturday next. We really think that you have one off quavasses to get along with. We have kept him in your district so long, to the prejudice of our business also where, that we feel compelled to insist up on his leaving you by Saturday next at the latest.

Noting that this will not cause you may great inconveniones, we remain,

Very truly yours

Tar J Straight line Engine Co.

Goddes & Fayette Sts.,

Syracuse, N.Y.

Dear Sirst-

We be: to acknowledge with thanks receipt of your favor of the loth, ingt. in relation to royalties on your engines, and will await the communication you propose sending us.

Yours truly,

Jak

Revember 13

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Doar Sir:-

We have your favor of the 5th, inst., asking us to send you an estimate for Piqua, with the central station located on the Parrington lot. The map which you mention in your letter came to hand a few minutes and, and it has therefore been impossible for us to comply with your request to wire the figures "on Mondays. Inasmuch as you want us to do very close figuring on this estimate, we wish you would the attached form filled in by some reliable person as accurately as possible, as to prices in We shall be glad to have this regurned at the carliest Piqua. possible moment, as we can give you no figures whatever until it is received by us. You also omitted to send us the size of the lost mentioned in the foregoing part of this letter. could have guessed at this size, but that is not always a safe thing to do. lloase sond us full particulars about this new lot in accordance with the form attached.

Yours, truly,

W. J. Jonks, Esq. Manager.

Edison Electric Illuminating Co.

brockton, Yass.

Doar Sir:-

Replying to your latter of the lath, inst, in regard to books and stationery covered by the amount of \$30. in the Brockton estimate, we have to say that it was our intention to supply a full set of books, together with special forms which we considered necessary for the running of your business. Some of these books are now being prepared by the printer, but it is our intention to made an allowance on this item and charge you only for what we sumply.

Yours truly,

P.S.

Frank S. Farr, Esq. Troas.

Edison Electric Illuminating Co.

Sunbury, Fenna.

Bear Sirt-

we beg to acknowledge recept of your letter of the th. inst., and in repl; would say that you can order clamts from Februs, Bergmann & Co., 2008 Weenuc B, City.

You ask for vulcanized fibre cleats and breds to see with ther. The cable can be obtained through us or by millioned threat to the Ansonia Brass & Copper Co., 10 Cliff Street, City.

In regard to the breakage of lamps, it is very strange that your metersan has not sense chough to see that his indicator is too high on one side and too low on the other. It requires hat a small assumt of judgement to make a comparison between the brightness of the lamps on the two sides. He should regulate those sides evenly and reset his indicator. Your breakage of lamps should be about fourteen a week.

Yours truly,

ovember 13th.

3

Col. G. E. Gouraud,

74 Hadison Avenue, City

My Door Colonel :-

Something Street

I have gobe thereupidy into the matter of the division of the Edison-Besser-Bell Telephone shares essume to the Edison interests and I do not see how I can do bottom than to offer a division of them on a basis of four-tenths to go to you for the countries you gut in and six-tenths to go to the Edison relephone Company of Europe here; you taking your proportion of the six-tenths, which you are entitled to under your grammement with the New York Edison Company.

If you will write me a note accepting the division as above stated, I will have the papers fixed up and mailed to you by Thursday's steamer without fail. I think that they should be put in a little more formed shape than that indicated in the formest letter already agreed upon between you and myself. I am very sorry that the matter should have been put off so long, but it was quitebounassidable.

Noting that you will have a pleasant tril home, believe me,

209

November 18th.

٠,

John Decker, Esq.

lewisburg, Union Co., Penna.

In reply to the query contained in your letter of the tth. inst. as to whether it would be possible to collect atmosphoric electrity on conducting wires, in order to obtain light, 1 her to say that the process is possible but highly impracticable.

Yours truly,

Jan J

G. W. Wilber, Esq.

Corner 4th. & Rodman Sts.

Fall River, Mass.

Door Sir:-

Please report at the carliest possible moment to this office and be prepared to take a journey South. We want you just as soon as you can got hore, and we shall be glad if you will wire us on receipt of this when we may expect to see you.

Rovember 18th.

Goorgo H. Bliss, Esq. Coneral Supt.

Chicago, Ills.

Dear Sir:-

We have your latter of the oth, inst, in reference to Appleton and Racine. In relation to the former, we trust that the information necessary for us to have, in order that we may prepare un estimate, will come to hand soon. We are glad to see you state that the Jacine estimate was matisfactory.

. Moreowith we beg to enclose you two copies of the form of agreement which is entered into by the local company with this herartment. We presume you have copies of the licenses contract which the farent Company uses in extending privileges to the local company. If you have not these latter copies Mr. Mastings will supply them.

Yours truly,

Enclosuro.

Personal.

November 14th.

Goorga Worthington, Esq.

33 Park Row, City.

Friend Worthington:-

You are barking up the group troes: Why did you not come and ask or Edison if he was the originator of the "Times" article before charging him in your paper with the "crime". You know him well shough and can easily get at him, and therefore it would cortainly have been a little more courteous if you had applied to him for information before allowing the article in your issue of the Eth. to be put in print. As you state "fair play is a jewel" and I might add that it is hardly fair play to judge a man guilty in advance. As a matter of fact Mr. Edison had nothing whatever to do with the article in question.

I write this for your personal information and not for publication.

Yours very truly,

89

covember 14th.

W. I. Carrison, Esq.

137 Fodoral Street,

Eoston, Rass.

liv Dear Sir:-

relation to the wiring. We are, at this writing, doing our best to get the cable accepted by the Soard of Fire Underwriters.
They have appointed a Committee to look into the matter, and Hager Eaton and En Edison are point to draw of a statement action; forth the advantages to us of using the cable, and immediately that is not out I understand that the Committee above referred to are to come here and tests are to be made with the cable to prove its adaptability to the purposes for which it is designed, and also to prove its safety when used instead of the ordinary two wires.

We all recognize that the question of choupening the wiring is about the next important matter attraction, und you may rely upon every possible before being made to give you something acceptable to the fire insurance people, and chapter than the material new used for house wiring purposes.

On my return to new York I spoke to be Edison with

51

vember 14th. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City

Limitofic Sir:-

I have the pleasure to enclose you herewith a small order for copper wire for use at it. Carmel, Penna. I also enclose you copy of our contract with the Edison Electric Illuminating Company of Mt. Carmel. The parties in interest are good substantial people, and in fact every way satisfactory to us. We have undertaken to start cur plant by the 15th, December, and you will therefore please hurry this wire as much as possible. It should be shipped from your works at the latest ten days from onto.

It is impossible for me to not down town to-day, and if you can have the necessary papers propered and returned by bearer, I will execute them and send them right back to you. I shall be glied if you can let me know whether you can ship the copper in the time above specified.

Yours very truly

November 14th.

W. H. Dwelloy, Jr. Esq. Treas.

Edison Electric Tlluminating Co.

Fall Rivor, Wass.

Doar Sir:-

Neferring to your favor of the 12th, inst., I am of the impression that you will have to use the old method or wiring antil we get formicaion from the Buard of Fire Underwriters to use the new cable. They have the matter under consideration, but it is protty difficult to force them to deal with it quickly.

I should therefore think it advisable not to mention to your probable customers that we have a cheeper method of wiring under way.

Vory truly yours,

Jan

November 14th.

Charles Batchblor, Esq.

Paris, France,

My Doar Eatcholor:-

Your letter of the 30th, inst. came to hand this morning.

I do not see why we should keep up our prices on lamps if it is noting to ruin our lamp sales in Europe, and I shall therefore be very careful what i say in reply to Forges letter, which you say is to come here. Anyway I should by no means be disposed to accode to his request, considering that he is bidding for the English lamp trade as avainst us.

we have not up to this writing made any single core machines.

We propose to do so at some future time, but how it will interfere with the manufacture of the derman dynames I dennet see:

Our policy is, when we design and build a machine, to be very
careful to soll all machines of a given design before we bring out
anything better. By this mounts we save ourselves being "stuck"

with a lot of obsolete machines. We have sold in this country all
the old forms of dynamos and our new types are now coming out,

we are none the worse off financially for having brought out Such now designs. It would be rediculous, as you well know, to suppose that we could build a machine and say that there will nover be any alteration. Your Ivry friends do not soom to understand this matter, no they think that simply because we are going to turn the 100 light machine into a single magnet machine, that we process throwing and all those that, we have built with the double magnet? At this writing we have about fifteen double magnet machines of the 100 light type at Goerck Street, and they will al be sold before we make any single magnet machines. follow this policy out right through our business. The first "I" machines that were made would run only 350 lights and wore of the long magnet type. We built about twenty of them. Then we not out the improved "No. on which we can run 450 lights with case. The whole of the former were sold with the exception of two. and those two we have just managed to dispose of without any sacrifice whatever, and at the same price at which we sold the improved "Il" to a very obliging customer who wants 700 lights and nothing more. although he can get 800 for the same figure.

t am delighted to hear that you propped urcturning, and the secondry you do so the better. The prospects are that we shall

Yours very truly, so an

Sunbury

Royembor 14th.

.,

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Bass.

Dear Sir:-

We closed this norming a contract for the installition of a plant which is practically the duplicate of Sunbury, at Et.Carmol. We have get to start the plant about the 17th, of December, which you will notice gives us little more than a month to do the work in. It is highly important that you should made a trip to Et.Carmol at the carliest possible moment. If you will please advise me by wire to-morrow when you can go there, I will moot you here at the office at any time when you may indicate when you go the broad have a talk with you before you go to bt.Carmol, and it is also necessary that you should not the oarliest date compatible with your arrangements for the pushing of the work at Fall Styer.

I onclose you belowith check for \$500, as requested in your note left here yesterday,

Your truly yours,

November 14th.

3

Charles batchedor, Esq.

Faris, France

My Dear Watchelor:-

I got your letter of the 30th, inst, this

froe and propose commun back here, but I as very sorry to say that I do not know exactly what to do with relation to stock matters for you. Ty long letter to you of whout a week are will have explained the cituation thereughly. To such to have posted you carlier, but you know how we are situated here and that must be considered. I arranged with Edison this sorping to cable to you casking if \$1,000, would be of any service to you, and if so, to draw on him at three days sight for same.

I hope that you will not leave la Bollo France before I gut over to see you. The caimet you arrange to come back on the "Overon" about the luth, January That in the time that I propose returning from my trip to Kingland.

Yours vory truly,

.

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Dear Sir:-

Er Boubloday has returned to town free losseville, and I propose sending his to you sax Friday might. Is he to go to lawronce or Fall River? If the station at Fall River will not be ready for you to start in there, I want he boubloday to apone the time between new and when it will be ready, in lawrence, so that you can further post him on our work, as I arranged with you when I saw you last.

Please let me have a roply by Friday morning's mail

Yory truly yours,

Movember 14th.

The Armington & Sims Go.

Providence, R. 1

Doar Sirs:-

Peferring to Order No. sont herewith, I beg to state that it is absolutely desential that you should stat the angument to Mt. Garmed inside of fourteen days. This is the longest possible time that we can gave you, and therefore mill rely upon your not disappointing us in the matter, as we have undertaken to start our plant about the lith, December.

Very truly yours,

Enclosure.

P. B. Shaw, Bsq.

Post Office.

liazelton. Fenna.

Dear Sir:-

the ordetion of an Edison Electric light Contral Station Plant at Conduction of an Edison Electric light Contral Station Plant at Hazelton, Ponna., amounting to \$20,004.41, and with a sequence of 1,219 lights, which we hope will reach you in time.

Very truly yours.

Jak

Movember 1 ith.

Hosers, Porris, Tasker & Go.

15 Gold Frenct, Caty.

Door Sirs:-

we enclose you herewith our order No. for steam paying to be chipped to it, sampel, beams. As this order is very small we trust that you wall be able to fill at for as immediately. We require to use this steam by ing in connection with a time contract that we have taken, and you will therefore very such children if you can state positively the date that you can ship the paying and fittings from fhillwelphia.

very truly yours,

Enclosure.

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Wall River, . Mass.

Dear Sir:- :

We have arranged with the Isolated Company to buy one of their large empines now at louisville to go to Tiffin, and have ordered them to ship it to 7. D. Rich, care Edison Electricallluminating Company, Tiffin, Ohio. Will you closes make the necessary arrangements to have it received there. I prosume it will be shipped inside of a week.

ery truly yours

Shamokin

November 15th.

Thomas P. Conant, Esq.

Weavers National Hotel.

Shamokin, Penna.

Doar Sir:-

I duly received your favor enclosing statement of the receipts for the first fifteen days record at Shamekin.

Will you please lot me have a statement of the running expenses of the station for the same period.

Very truly yours.

Wu.



Doutsche Edison Genellschaft,

Berlin, Germany.

Dear Sirs:-

Referring to our cables confirmed elsewhere, the statement that the Sawyer-Mann reorle have beaten me in a patent suit is ontirely untrue. Your Fatent Attorney will explain to you that the proceedure in the American Patent Office is that if two applicants cover the same point in their application for a patent, the matter is thrown into "interference", and the morits of the case decided by the Patent Office, and if they are appealed against the decision is revised by a higher court. The Board of Examiners whochre the scientific part of the Patent Office decided the Sawyar-Edison interference in my favor. The Sawyer people then appealed to the Commissioner of Patents, who reversed the decision of the Board of Examiners. We have now appealed to the Secretary of the Interior, but have no idea who will win. Anyway whoever wins, the case will be carried to the Supreme Court. There is really no great question involved in the application, and we fight it out on the general policy that wherever we have a

Dodazeke Edisen Cesellschart, Berlin, Cormany,

disjuic in the Patent Office we carry the matter to the highest possible Tribunal to obtain a settlement. The Sawyer interference refers to matters in relation to paper carbon, the use of which is entirely obsolete, and if I gain the case the result will simply be a little gain of prestine on my part, inasmuch as I should never think of using paper for my loop in the present advanced state of the art.

Very truly yours,





W. J. Janks, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, bass.

Dear Sir:-

Referring to your favor of the 12th, inst., we shall be very glad to make equitable arrangements with you to furnish you with two machines in place of the one you now have as a spare. At the present tiem we have not dynamos of the class required on hand, which we could send you. I will notify you as soon as we have, and will see what proposition I can make as to taking the one you now have back again. You have such a standard equipment as we were able to estimate for at the time the contract was made. with the Brockton Company. The smaller machines were not at that time designed, and it was impossible for us to contract for anything else. It is not practicable at present to use the three brushes, and I doubt very much if it would be desirable with the now system of winding, which at present is not in that state of perfection which will allow of our using it. I shall probably he able to were sure the course of ten days or so as to supplying you with two smaller machines. Cannot you arrange to put all the "late" lights, or those required in the morning, on one side of Brock ton,

Edison Electric Illuminating Co.

. Jours, May, Manager.

the circuit, so as to avoidd necessity of reversing the current through the meters on one or the other half.

The lawrence Company contracted for "N" machines and afterwards requested me to supply them with a spare, their original intention being to use an old "R" as a spare. To do what you desire will require a few extra switches and an extra resistance box I think, but at this writing we have not worked out the exact plan by which we intend to operate the two small machines in a plant where "N" machines are used for the general running.

We have not, up to this writing, been able to get the cable, of which we sent you some samples, approved by the Board of Fire Underwriters. They have appointed a Committee, however, whose duty it is to look into the matter, and immediately we can get some action taken by them we will write you as to the matter.

Vory truly yours,

9.

1883-11-15

nunch mrs Jupa

November 15th. 1883

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Doar Sir:-

Reclosed horswith please find statement giving the full particulars as to those dynamo machines maked for by you.

If there are any further details that you desire we will send them to you. We think that we can send them blue prints of the foundations in the course of ten days or so.

Very truly yours

Enclosure

El. St. - Foreign - France

November 15th.

3

J. F. Bailoy, Esq.

. Paris, France.

Dear Sir:-

Referring to cables elsewhere confirmed, I bon to inform you that I have cabled to the Societe Kleetrieque Edison,
Paris, stating that I have not get a man whom I can send to start
the Edison lamp Factory in Cormany. So many of our men have gone
to Europe that, in justice to our Home Company here and our manufucturing interests, it is imperative that we should keep what
roud men we now have to do our work in this country. We have a
groat deal of it and very few people to do it. It cortainly
seems to me that the lyry gactory ought to be able to supply the
man required.

Very truly yours

3

Socioto Industriollo et Commerciale Edison, Tyry-sur-Seine, Franco.

Doar Sirs:-

Referring to your favor of the 12th. October, I beg to give you below prices of the various Armington & Sies ongines.

I prosume the ten per cent royalty should be paid on the prices named,

Yory truly yours,

wovember 15th.

American Rell Telephone Co.

95 Hilk Street,

Boston, Mass.

Door Sirs:-

Noforring to your favor of the 18th, inst., we hege to state that the 1000 carbon buttons were shipped to you on the 18th, inst, will you please advise us whether you will require any more them them, inasmuch as we have to rig up specially to make them, and would like to have a number made new if you are liable to order any more within the next few months.

Very truly yours

I enclose you herewit! our bill for the 1,000 carbons.

November 15th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have looked into the matter of the engine shown to like Insull by you when he was in the same and I am confident that it is of such a character that it would absolutely be of no use to us in our business. It would therefore be useless for me to go further into the question, unless messers. Smith, Myers & Co. get up an estirely different engine. From the explanations given me by Mr. Insull, I do not wender that they could have built the engines so much cheaper than those we now use. They are of a very cheap character and would by no means answer our purposes.

Vory truly yours,

Lai

E. Buchol, Esq.

101 Conti Street,

New Orleans, Ial

Doar Sir:-

Your favor dated October came duly to hand, but the picture referred to therein ded not arrive until a day or so back.

It affords me very great cleasure to acknowledge its receipt and to thank you for your very great kindness in sending me so charming a painting. It is very difficult to do justice to such a compliment and I therefore will not do so, but simply return you my heartfelt thanks for your very great kindness.

May I ask you to accept a copy of my photograph, which I sond by express,

with relation to the Phonograph, I have been so busy in developing my system of electric lighting for the past few years that I have been compelled to drop all other matters.

Very truly yours,

3

C. E. Spiere, Esq.

Schurray Stroot, City

Priond Spiors:-

We are going to have a "b" to-night, that is we propose putting the books in order up stairs in the library.

If you have nothing particularly to do, I think it would be a favorable opportunity for you to not information as to the missing volumes and duplicate sets and size greatly assist us, if you can favor us with your company. The performance will start in about eight o'clock.

Very truly yours

P. B. Shaw, Esq.

Williamsport; Ponna,

Doar Sir:-

I beg to acknowledge receipt of your telegram as follows:-

"hazolton contracts signed and forwarded to you via Rouding Express, together with check and draft for twent; five per contum. Fush the work."

I commutablate you on the speedy closing of these contracts, and can assure you that the work will be pushed ahead rapidly.

Our uperintendent. He flich, will be in Mt. Carael Monday, and as seen as he has started work there, he will go to Maxelton. I presume he will be in Maxelton about fucsday or Wodnesday.

Our meterial for Mt. Carmel is all practically ordered, and we are assured of such early deliverses that I anticipate that there will be no coley in the installation of this plant, and I have every reason to believe that the Maxelton work will go forward with the sume regidity.

Vory truly yours,

Barocher 13th

1000.

A. Stuart, Esq. Secty.

Cincinnata, Ohio.

Door Sir:-

Thave your favor of the 12th, inst., and in reply beg to state that it is impossible to send you an estimate for Cynthiana until we have the position of the central station lots.

The letter as to this sill so forward to you to-day.

We can do nothing with the new estimate for Piqua until you give us the exact size of the lot, and the information written for some days back.

Very truly yours,



November 16tl

C. E. Spiers, Esq.

23 Murray Street, City.

Meaend Spiors:-

Have you get a cut of Mr. Edison's are lamp? Proscott wants it for his book.

Vory truly yours.

3)

November 16th.

Hrs. E. Adoms,

160 Irving Stret,

Woodside, N. J.

by Dear Brs. Adams:-

Can you tell me the exact date that your late

husband first sailed for Englands we want to get at it in connection with some of our bisiness heroon telephone Quits

Yours yory truly,

November 16th.

Paul D. Dyor. Esq.

care A. Stuart, Esq.

Cincinnati, Chic

Doar Sirt-

Under separate cover we read you some of our special rejects, which we desire you to fill our for each town you can was.

Floace he careful to obtain as reliable information as you can possibly got in regard to local prices. We also wish you would note on this report the date you arrive in a town and the date you loave it.

Yery truly yours

S

November 14 ti

Paul D. Dyor, Esq.

New Orleans, La.

Doar Sir:-

Referring to your favor of the 13th, inst. with relation to the trouble at Careloville, Mr. Edison state that the fault was with the engine used. No cannot imagine how the local people at the property of the candle power with the impute or expect to bring the lamps up to the candle power with the impute or running at 1100 revolutions when 1500 revolutions is required. Retary engines generally take in steam at 100 lbs, and let it out at 40 lbs. Four horse power is all that is required.

3-1

November 16th

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Dear Sar:-

The enclose herewith blue prints of the districts of Mangleton.
Tiffingend St. Carrol, together with plans of our central stations.

We desire you to some us a complete list of the electrical material required in each of these places. As gravely. Go forwards.

. .

November 16th.

Paul D. Dyor, Eng.

Post Office.

Now Orleans, la

Door Sir:-

I enclose you herewith letter of introduction to En

W. b. Boringer, of the In. Telephone co., ger Orleans, In., who is the montloman you are to now there.

Yery truly yours.

A. Stuart, Esq. Secty.

Cincinnati, Chic

Dear Sir:-

In accordance with the attached forms we send you under separate cover by some mail two blue prints each of Synthiana and Baysville. One of these prints is marked with the red circle, in which it is desirable to obtain options on lots, and the other one shows where we propose runnim our lines. We send you those latter in order that you may inspect them and if there are any difficulties which would provent our fellowing the course shown on some, we shall be glad to be advised of it. Purthermore if there are any additions which you wish to make or any portion of the districts marked that you desire to cut off, we wish you would advise us by letter to that effect, at the same time returning the charts which we send you.

We pursue this course in order that it may not be necessary for us to make more than one electrical determination for each place, as these determinations consume a great deal of time, which at the present moment we can but likely ill afford to lose. The date when you will receive the estimates for those places entirely depends upon the degree of prespiness which is used in

Cincinnati, Chio.

Staurt, Esq. Socty.

returning to us the information asked for herein.

yary truly yours,

November 16th.

cosrs. Dergmann a co.

202 Avenue B, city

Dear Sirs: - :

The bearer of this, or Bibler, has been encaped by us to take charge of the construction of our pole lines for village plants.

will you please confer with him as to any stock you may have on hand which capht be useful to us in this work, as I may possibly be able to take it off your hands.

Yours truly

SI

Royambar 16th.

3

Patrick & Carter,

Tolograph Instrument Makers, Philadolphia, Penna.

Dear Sirs:-

Can you possibly may be able that you made the first telephones for me, tenether with a copy of the order, copy of the bill you rendered me and where the telephones were delivered and any such information that aight suggest itself to you.

If you have copy of any drawings used by you in making the above referred to telephones, I should be glad it you could loan than to me.

Vory truly jours,

2aa

I refer more espendly to the carbon Telephone's

November 16th.

E. T. Greenfield, Esq.

41 Ann Street, City

Doar Sir:-

The bonrow of this, we Hibber, has been empayed by us to take charge of our line construction work for village plants. He Hibber informs me that he is acquainted with you. If you can give him any information such as your experience at Sunbury and Shamekin would suggest to you, I shall be much obliged.

Very truly yours,

SI

November lith

Charles T. Hughes, Feq.

Morgan House,

Poughkoopsie, N.1

Dear Sir:-

In accordance with the attached form we mend you under soparate ever by same seal two blue prints of Pounhkoepsie, gine marked with a red circle, within which it is desirable to obtain options on lets, and the other shows the course of our street installation. In relation to the latter, we sigh you to examine it very carefully, and if there are any obstacles which would provent our running the lines as shown thereon, we desire you to advise us of them by letter, also make any suggestions you may think desirable. Purthermore if you wish to add to the district or cut off any portion of it, we desire to be advised of the fact with accurate information as to alterations. We pursue this current in order that it may be messary for us to make only one oldestrical determination, which shall be final, as at the present time we are so pressed with work that we can very ill afford to lose time ever mughling.

Yory fruly yours,

Zalej

Roycabor lith

.

H. Ward Joonard, Esq.

eare Edison Sloctric Illuminating Co.

Brockton, Mass.

Doar Sir:-

customers connected, the number of lights they are burning, the amount of their bills, for last wouth. Those cullocted and uncollected. Also the amount of the romaing expenses of the station for last month and expected detailed information that you can give me, as I have gain, and again asked you. What I desire is a dotailed statement and not the general remarks to the effect that overything is running moothly.

Yours truly,

sales

November 17th.

N. C. Yost, Esq. Troas.

Edison Electric Illuminating Co.

Hazleton, Penna

Dear Sir:

I bog to enclose you herewith contract signed by mycelf for the crection of a ceptral station plant at Hamleton, Pa.,
and I have the pleasure to acknowledge receipt through Mn Shaw of
your check for 31,000, and the draft of your President drawn in
my favor at ten days sight for 34,171.10, the latter being accepted
by you on the 15th. November.

My Superintendent leaves here to-morrow night for Mt.

Garmol, Pa., and immediately he gets through there, which will be
about Tucaday, he will proceed to Hazleton and start the work there
keantime all our material has been ordered, and we will push the
construction of the station as Vigorously as possible.

Very truly yours,

By S. attorne

Enclosure.

November 17th.

P. B. Shaw. Kea

Williamsport, Penns

Dear Sir:-

I have your favor of the 10th, inst, enclosing two signed copies of the contract for the installation of a central station plant for the Edison Electric Illuminating company of Mazioton, also check of the Treasurer for \$1,000, and also a draft
drawn by the President and accepted by the Treasurer for \$4,171,10
payable the 20th, of this month. I have acknowledged receipt of
same to the Treasurer of the Commany.

Vory truly yours,

Day

h.

Straight Jino Engine Co.

Syraeuso, R. Y.

Door Sirst-

I have your favor of the 15th, inst, and note contents.

I will discuss the matter with Mr. Sweet on his visiting me here in New York. I have wired you this morning that I will see him any day that he may call upon mo.

Vory thaly yours,

20k

November 18th. :

John Do Lacy Duffy, Esq.

132 Wassau Street, City

Dear Sir:-

Referring to your favor of the 17th, inst., all we require is men to make make to scale here in our office from data already obtained by our agents outside.

Very truly yours,

Sl

Revember 16th. S

S. B. Eaton, Esq. Prest.

CITI

Doar Sir:-

We have your favor of the lith, inst., and can have the estimates you refer to made immediately we learn from in Markle the towns he requires canvassed.

Can you give us his address, as we wish to reach his by telegraph immediately, in order to give our canvasser, who is now in Madison, instructions to proceed into MacMarkle's servitorys

2au

November loth.

Frank H. Mc. Cormick, Esq. Prost.
Williamsport, Penna.

Dear Sir:-

Will you please have the certificates of stock due Mr.
Edison, under his basis of settlement with you, issued in his name
immediately the authorization of the increased capital is effected.
Of course of the Company decide to pay the cash instead, we shall
be glad to receive your Treasurer's check for the balance still
due.

Very trely yours

& J P.S

November 19th, 18th,

Gustav Soldan, Esq. Supt.

104 Guarck Street, City.

Doar Sir:-

Mr. Matchinson reports to me that he is very mixious to get some more 50 light machines. Will you please hurry the orders you have for them, namely, the balance of the ten on an old order and the ten which I recently ordered from you.

We are also urgently in need of 200 and 300 light machines.

I enclose you horawith an order for ten 200 light machines, and would urge you to get the requisitions quickly as possible. I am urgently in need of at least five of them.

Yours truly,

rs truiy,

November 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Guorck Stroot, City.

Doar Sir:-

Will you please alter my order No.26, for ten 200 light dynamos, to five 200 light dynamos, as I find that will be quite sufficient for present purposes.

I enclose you herewith a further order (No.26) for five 300 light dynamos.

I may state that every dynamo ordered by me to built has now boom placed. This remark applies equally to the orders sometime proviously placed and those sent to-day, including the above, and you will therefore see how necessary it is to push them through quickly.

Yours truly,

Vember 16th o

The Armington & Sims Co.

Providence, R. I.

Door Sirs:-

I beg to enclose you herewith all the letters we have received recently from Shamekin with relation to the engines there. I received a second telegram restorday stating that a second engine had broken flown. The rejects from our man do not seem to agree exactly with the statement of the case as shown in your favor of the the lith, inst.

Will you ploase return this correspondence as soon as possible, and oblige,

Very truly yours,

Jan

Enclosure.

November 19th.

W. S. Androws, Esq.

lawrence, Hass.

Doar Sir:-

Referring to your favor of the lith. Inst., we will supply in lord with the spare dynamos at the earliest possible moment, but at this writing it is impossible to say how soon we will be. We are straining every nerve to turn machines out, but when I tell you that the patterns were only completed the last of last weel you will understand that it will take a little time before we can have the machines ready to deliver to in lord, inascuch as we have Isolated Company orders of from three to four months standing, which take precedence of everything else.

Very truly yours

Al



ovember 19th.

W. S. Andrews, Esq.

caro Edison Electric Illuminating Co.
lawrence, Hass.

Dear Sir:-

I think we ought to pay an Parry a salary just to cover his boarding expenses, or I might pay his board and a nominal salary bosides. Will you please lot my know her useful he is to you and we will pay his assordingly?

I have another man who is by no means ar well posted as Forry, but whom I should like to send out to a station to learn the practical works of I was transmit that you might well do this if you were to put him say under noubleday at wall River.

Will you please let no know if you can make any disposition of his services. The property and all the experience that he has get has been in Goorel Street for the last few months, and before he went there he was with Kosers. Verity, of london. I funcy he was their bookkeaper, but he has a liking for mechanics, and I should very much like to make use of him if only a layer to Mr. Johnson. Of course if you was use his and find out afterwards that he is of no use, we could tell him so.

Please advise us as to this at your early convenience.

DOGG TWO

.

1883-11-19

In addition to the Pall River, Tiffin and Nomburgh stalions, we have closed contracts formWindleton, Penna. 1,000 lights, Bellefonte, Penna. 100 lights and Ht. Carnel, Penna. 500 lights. You will therefore see that we shall need a good many men later on, and the more we can break into our work move at the smallest possible expense the better,

Very truly yours,

81

The Armington & Sims Co.

Providence, R. 1

Doar Sirs:-

Referring to your favor of the lith., I telegraphed you on Saturday to send an engine, with the same size pulley as that proviously sent, to Shamekin. I received a telegram yesterday from Shamekin stating that the second engine had broken down, and immediately wired you to some a man on to Shamekin at once. I have wired you this morning asking you to answer my telegram, as I am very anxious to knew whether the engine has been shipled and if the man has started, as I am very much afraid that our Shamekin plant would eque to a standstill, and this would be very disastrous. Every moment's delay in not sending your man there will cost us a great deal of money, as we are only able to run one engineous, which compels us to reverse the current through the motors and this prevents our getting any correct meter records.

Very truly yours,

Jac

Have since got your telegram varying engine

W. S. Andrews, Esq.

Lagronco, Bass.

Doar Sir:-

peforming to your favor of the lith, lest, to Mr Edison, he now instructs no to send you a copy of the questions and incore but wishes to improse upon you that this is solely for your use.

Yory truly jours,

81

A relet November 20th.

J. J. Jonks, Esq. Managor.

Brockton, Hass,

Dear Sir:-

Will you please inform no if you think we can take our exports away from Brockton right away. If not, what date would suit your convenience?

Yours truly,

2-ale

November 20th.

John Mullon, Esq. Treas.

Shamokin, Fonna.

Doar Sir:-

We best to draw your attention to the fact that there is still xxx a balance of \$3,000, due to us under our contract with you for the erection of the plant at Shamekin. It was the understanding of our Er Insull when in Shamekin last that the balance due at that date should be settled shortly from the proceeds of sales of \$3,000, of bends. We have only so far received a remittance for \$1,000, on this account, and would esteem it a favor if you would oblige by sending us a check for \$2,000, to balance, so that we can close out our account,

Very truly yours

2ak



loyombor 20th.

W. D. Rich, Esq.

Bush House,

Dellofonte, Penna.

Dear Sir:-

Wo are notified by our frought broker that he has securd for us the following rates:-

For Tiffin, Ohio, via the lackswanna Foot Preight Jino, first class, 50 cents, second class, 40 cents, third class, 35 cents, fourth class, 27 cents. Each of these rates is subject to a rebate after the arrival of goods at their destination, as follows, first class, 0 cents, second class, 4 cents, third class, 3 cents, fourth class, 2 cents. To Newburgh, via the New York, West Shore & Buffalc, first class, 20 cents, second class, 40 cents third class, 10 cents, fourth class, 10 cents, and carload lots are to be billed at 7 cents for hundred pounds, and anything less than carloads, but not less than 5000 pounds is to be billed at U cents. To Mt. Carmel, Fenna, via Philadelphia & Reading, first class, 40 cents, second class, 32 cents, third class, 25 cents and fourth class, 18 cents, upon shipments in carloads we can obtain a rate of 14 cents, The Thundred pounds, but on account

1883-11-20

of the Trisgular manner in which it is necessary to be sent forward voice not expect to be able to take advantage of this rate of 14.2 cents.

Please soo that material sent toyyou is hilled in accordance with the above and advise us of any excess.

Yery truly yours,

The T. A. Edison Constn. nept.

Bv

Control of the contro

November 20th.

W. Preston Hix, Esq.

388 West Wain Street,

louisville, ly.

Doar Sir:-

We have your letter of the 17th, inst. in reference to the option on the let chosen for central station purposes in louisyille running out in ten days.

We enclose herewith map of Joursville, and beg to call your attention to the fact that if we can obtain a lot in Alocks 40, 41 or 42, which are marked in redclose pencil, it will reduce the cost of the street installation by about \$20,000. The most desirable joint for this lot is where we have made a star in red. You will see that it would be economy to pay a good price for a lot in this locality, considering the heavy expenditures which will be avoided by doing so.

Kindly let us hear from you as quickly as possible as to what you can do in the matter, and oblige,

Vory truly yours,

The T. A. Edison Constn. Dept.

iv A

November 30th.

Hossrs, Farris & Robinson,

Trust Co's Building,

Bartford, Conn.

Dear Sirs:-

Mn Mastings referred to us a lotter from you a few days ago in which you requested a memoranes of the installations we have made and the assumt of each contract. We beg to attach a statement giving the information you desire. The first column shows the nominal capacity of the plant, the second the number of lights included in the district wired and the third the total amount of the contract.

Very truly yours,

The T. A. Edison Constn. Dort.

Ву

SI



November 20th. 3

Spencer Bordon, Esq.

P. O. Box 3311,

Boston, Mass

Door Sir:-

In roply to your favor of the 10th, inst., which through pross of work has romained unanswered until to-day, we beg to say that we were fully aware of the fact that we had not included spares in the estimates for Norwich and Natick. You will notice that the boiler caracity necessary for the operation of these plants is 92 horse power and we have supplied in each case a 14 2 x 13 ongine to do the work. By reference to the tabulated formula of indicated horse power at different initial pressures of steam in the Armington & Sims catalogue, you will find that at 350 rovolutions per minute the maximum caracity of the engines above referred to is 202,8 herse power with 100 lbs, pressure. In practice we usually employ about 120 lbs, pressure, and, in order to satisfactorily and officiently operate a plant of the size of the one in question, the speed of this engine need not On this account there is so much margin left that we consider it unnocessary to furnish a spare engine.

1883311

In relation to the dynamics, the machines which we propose supplying are of the type known as the T machines, and their maximum capacity is 507 lights. By this you will see that the actual especity of each of these plants is 1,134 lamps, instead of the unit we employ, namely, 1,000. In the case of Norwich the conductors are calculated to carry 1,216 lights, as shown on the estimate, and in the case of Natick they have been calculated at 1,000 lights. In each of these instances the number of lights embraced by our street installation is the maximum number that can possibly be burning at any one time. In order to tax these conductors to their fullest extent it would be necessary that every light in every building in the whole the covered by them should be lift and this is an event which will never take place,

In relation to our proposed buildings for contral station purposes, if at any time it is desirable to increase the capacity of the plant it can be done by making additions to the buildings, but inasmuch as our experience has proved to us that large and expensive buildings (expensive in comparison to the size of the plant) are derogatory to the acceptance of our estimates, "we considered it advisable in each of these cases to design a building just sufficiently large and convenient for the working

the extends and thousand out of the standard o

maximum capacity is 309 lights. By this war

the plants we proposed to install at Norwich and Natick. If in either case the local people, with whom we have to anal, desire a larger building erected, weewill furnish plans and esti-

Trusting that this explanation will satisfy points in question, we are,

Sponcor Morden, Esq.

Poston, Pass.

Doar Sir:-

We beg to return herewith letter and sketch addressed to be Bodskinsen by Mr. D. S. Bates.

In commenting upon the exec, we would say that it is impossible for us to prepare such a man as we can estimate from unless we have a chart drang to scale. We should like to obtain a chart of Webster such as we have described, but we do not feel that we can no to the expense of having a survey made of the town in order to obtain it. As a general thing in places of this size there is a city engineer, and from this gentl-man we obtain the chart we require at a cost which has never yet extended \$25., even in places of the size of fansas city. We shall be glad if you can suggest any way in which we can obtain the maps we have abled you for, and trust that you will favor us with an early response to this letter.

Vory truly yours,

Tho . A. Edison Constn. Dopt.

y



3.

My Dear Mr. Waterhouse:-

I loave here for Jondon on the 11th.

December, and shall be glad if you will kindly cable if there are any matters requireng Mr. Edison's Contrator attention prior to my departure, so that I can got them all in shape before I leave.

I thought possibly there might be some documents in connection with the amalgamation scheme requiring his signature, and it would be necessary for me to arrange to have them fixed up on their arrival here before I leave, otherwise they would, in all probability, have to remain ever until my return the ender January.

While in london I hope to do myself the very great
pleasure of calling on you, and will then give you some idea of
the progress of our lighting business in this country.

I remain, My Dear Mr. Waterhouse,

Very faithfully yours,

SI

Hovembor 20

Mosars' Arminoton & Sims.

Providence. R. I.

Dear Sirs:-

tare of.

When you are making shipment of our Nowburgh engines, ploase forward them by the New York & New England Railroad, as we have a special rate on that line which we desire to take advan-

Vory trul/ Yours,
The T. A. Edison Constn. Dept.

By

51

.

W. S. Andrews, Esq.

eare Edison Electric Illuminating Co.

Jawrence, Fass.

Dear Sir:-

We have your lotter of the 13th, inst., and have ordered the material you required.

In relation to the large copper wire. 45 inches diameter, we find that the Ansonia people cannot supply this for about three weeks. We are trying to get it elsewhere, but at this writing cannot tell how successful we may be.

In order to avoid a repitition of the delay which may take place in furnishing you with this material, we would suggest that you sendbus a statement of wire and other material for inside work such as you think it would be advisable for us to carry in stock. Ilease let us have this as early as possible, so that there may be no delay when material is required for the balance of the installations now in head,

Very truly yours,

The T. A. Edison Constn. Dert.

Бу

81

. S. Androws, Esq.

Lawrence, Hass,

Doar Sirt-

We bug to emclose herewith map of the district of hellefonte, together with plan of the central station which we propose erecting at that point, and wish you to send us information at the emplose possible moment in relation to what electrical material we will require for the inside of same.

Vory truly yours,

Thos. A. Edison Constn. Dept.

Ву

ne ?

Nevember 21st.

W. D. Rich, Esq.

Bush Fouse.

Bellefonte, Tenna,

Dear Sir:-

Referring to your arrangements with us as Superintendent of Construction, we beg to advise you that we have credited your account with the assumt of \$500. On account of the remuneration to be paid you outside of salary.

Flease adviso us what disposition you wish made of same.

Very truly yours,

Thos. A. Edison Constn. Dopt.

tor

4)

Hovember 31st

11340111011 23234

Colonel Goddard,

City.

My Doar Colonel Goddard:-

what evening can you spare to go into the question of bookkeeping for our local illuminating companies, "Acting which you so Fromised to do sometime back? What I would like to do would be to arrange a meeting with yourself, Hutchinson, Tate and myself, and I have no doubt that if you can make an appointment that the remainder of us can accommodate ourselves to your

Vory truly yours

St

Kovember 21st

3

Messrs. Malo & Wolcott,

39 Court Street,

Poston, Pass

Doar Sirs:-

Perferring to the correspondence you have had with in lowrey with relation to the suit Welch vs Edison, I beg to state that I have been trying to get at the whereabouts of Fr. Milton Adams. I now learn that he is in the fity of Mexico and will return to Europe via New York. I shall hope to advise you early of his return, so as to enable the necessary examination of him to take place in New York.

Very truly yours

Dela

Jelegroph

November 21st.

3

Cliver E. Lyman, Esq.

45 William Street, City.

Door Sir:-

Referring to your favor of the 15th, inst., I beg to state that I have not written any paper on Underground Telegraphic Systems. There is no reason whatever, except on the score of expense, why all wires operating electrical apparatus should not be underground.

Very truly yours,

Za

November 21es

Compagnie Continentale Edison.

Paris, France.

Doar Sirs;-

Referring to your favor of the 1sth. October, I understand that the papers in the Austrian suit have been sent forward to you semetime back.

Very truly yours

Zue

,

Auvember 21st. 3

W. S. Andrews, Esq.

lawronce, Kass

Doar Sir:-

Yours of the 30th, inst. to hand.

We yesterday ordered to be shipped to you some marine

I cannot may at this moment whom Conant will go to
Instruct. I am trying to get Lounard from Erockton to go there,
but I do not know, however, whether they can spare him from
Brockton yet.

Very truly yours, Thes. A. Edison Constn. Dept.

Dy

8-1

wovombor Blat.

The Armington & Sims Co.

Providence, R. I

Doar Sirs:-

Referring to your bill of the 20th, inst. for one No. 32, 8 2 x 10 engine, I beg to notify you that we do not propose at present to place the amount of the bill in question to your credit, inassuch as we are not at all satisfied that the trouble with the onerges at Shamokin is the fault of our people there.

If the cause of the failure of the engine is owing to the fault in the ongine itself, we shall not expect to pay for a new engine being sent to Shamokin. Lending the sottlement of this matter we will hold the bill.

Very truly yours,

2nn

W. S. Androws, Esq.

lawrence, hass.

Dear Sir:-

Referring to your favor of the luth, rast, we are going to have Grower test the sulpahot of zine such as sent to lawrence. We may remark that we ordered exactly the sense as that used by the Edison Electric Illuminating Company's down town station.

Vory truly yours.

Thos. A. Edison Constn. Dopt.

Ву.

51

kovember 21st.

W. S. Andrews, Esq.

lawronen, cass.

Doar Sir:-

I have your favor of the 20th, inst. as to short postage on the map sont you. I feel very much annoyed that such a blunder should have occurred in my office. Under separate cover the maps have been forwarded to you to-day.

I have written larry to-day stating that we will pay him \$12. For wook and his travelling expenses when ordered from one town to another. I think this will please him to start on.

The gentleman, whom I propose to send to Fall river, will leave here immediately we have a talogram from you on the subject.

Very truly yours,

Thos. A. Edison Constn. Dopt.

Hy .

November 21st.

Kajor Flood Page, Conoral Managor,

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue,

London, E. G. England.

Doar Sir:-

Your favor of the 17th, September came only to hand.

I have been unable up to this writing to send you the prices of our machines in consequence of the models not having been turned out until quite recently. I now send you tabulated scatement which will show you the prices, speed, size &c. of the various machines we are now building. It is very difficult to get up a sample installation such as you ask for, and I think you would do better to draw on the experience of the london Company

Very truly yours,

November 21st.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Dear Sir:-

four various letters as to Tiffin have duly come to hand.

We have delayed sending a wiroman to Tiffin in order to try and avail ourselves of a cheaper form of wiring, which we have not been able to do up to this writing as it has not been accepted by the Neard of Mire Underwriters. They have, however, the metter under advisement and promise to consider it and either refuse or accept our new form of wire. Meantime we have decided to send our wireman to Tiffin, and hope to be able to desputch him in the course of about three days. We must confess that we think you are in undue haste to get the housesexixxex vired in Tiffin, and we fail to see the middle for your extreme anxiety in relation to the matter. Our work at Tiffin will not be interfered with by the freet.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ву



Nowamber 21st

3

Societe D' Apparoillage Electrique,

8 Boulevard du Theatre,

Ceneve, Switzerland.

Doar Sirs:-

We have your favor of the 18th, October,

We hope to send you in the course of a week or so drawings of our 25, 50, 200 and 300 light dynamos.

We send you herewith statement of the speed and size of pulley of each of our machines we are now building, together with prices at which we are prepared to ship them P.O.E. New York City. We are propared to take any orders from you and construct machines and undertake to ship same about twenty (20) or thirty (30) days after receipt of order. If your orders are small it is highly probable that we would be able to ship the state of receipt of order. The reason that the catalogue of the Edison Company for Isolated Lighting contains so little about dynames is that it was issued at a time when my experiments in changing over our machines rendered it impossible for the Isolated Company to get at sufficient data to enable them to give proper information about the

1893-11-21

The Electric Tube Company does not publish any catalogue.

I will, however, obtain from them a pricelist and forward it to

you in the course of a day or so.

The other inquiries contained in your letter shall receive my attention within the next wook, and I will endeavor to answer you fully in relation thereto.

Very truly yours,

Rnelosuro.

November 21st.

P. B. Shaw, Esq.

Williamsport, Ponna

Doar Sir:-

I am in receipt of your favor of the ltth, inst.

covering contract between myself and the Bellefonte Company for the
installation of an electric light plant in Bellefonte. I have
also the draft of the President drawn in my favor on the Socretary
of the Company. I cannot act on this matter until I get a copy
of the estimate as amended. Immediately I get this I will

communicate with the Hembergroof the Bellefonte Company in relation
to the matter. Heantime ourboors will be pushed shead. I am
expecting that Br. Rich will be in Bellefonte either to-morrow or
the next day.

Very truly yours.

Jan

November 21st.

- 3

Socioto D'Apparoillago Electrique,

8 Boulevard du Thoatre,

Geneve, Switzerland,

Door Sirs:-

Referring to your favor of the 10th. October, I bog to state that the contract with Messrs, Siemens & Halske refers alone to Cormany. It is made between the Societe Electrique Edison of Paris and a Berlin Syndicate. I cannot understand how Messrs, Siemens & Halske can Interphenewith your business, as they have no rights whatever outside of Germany. I am now in course of negotiation with my Paris Company with a view to getting better protection of our mutual interests in Switzerland. The competition which the Paris Company have entered into against your Company's, sales is entirely unauthorized by mo, and I am doing all that is in my power to provent the same.

Very truly yours,

November 21st

G. W. Wilber, Esq.

Notel Woimmeister,

Atlanta, Ga.

Door Sir:-

We have your favor of the 17th, inst..

We cannot state exactly where you will go after you get through at Atlanta, but will let you know as soon as possible

Many thanks for your kind wishes in connection with my trip to Europe, but I shall be hore for two or three wooks yet.

Very truly yours,

November Blst.

W. S. Andréws, Esq.

care Edison Electric Illuminating Co.

lagrence, Eass.

Dear Sir:-

To beg to notify you that from this date you will be credited with a salary at the rate of \$3. For day, instead of \$4.50 as heretofore.

Very truly yours,

Thus. A. Edison Constn. Dept.

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A A



November 21st.

W. S. Andrews, Esq.

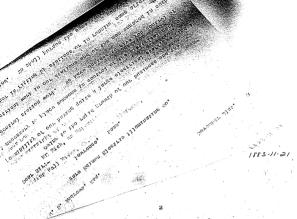
care Edison Electric Illuminating Co.
Jawrence, Bass.

Dear Sir:-

Owing to the rapid growth of our business and the possibility of our having quite a large electrical staff, we find in it necessary to place summent in Control of the electrical part of our central station work. We have decided to give you control of all electrical work in our stations and of the men engaged in such work, whether in fitting up stations or in running same after the bean started. We shall purgue the same course with relation to the interior of the station as that followed for some time past, namely, we shall look to you to communicate to us what is demirable each station should contain electrically, and also how the instruments Ac. shall be arranged.

It would seem to us desirable that you should not spend all your time in one place, but you should make such disposition of your men as to enable you to go from place to place and keep a proper oversight of the work.

Mr. Rich, as Superintendent of Construction, is now building Fall River, Mt. Carmel, Hollofonto, Hazloton, Tiffin and



Nowburgh stations. Immediately these stations are in condition to have the electrical part of the work done it will be necessary for you to start sume. You should also be on hand to start the stations when we are ready to light up.

At present our staff is as follows, Mr Conant, Mr Doubloday, Mr Leonard, Mr Cakley and, as my last letter indicates to you, Mr Perry. These centlemen will be under your direction, and we shall look to you to state exactly what disposition should be made of them.

We think it would be well, immediately you have started on Fall River, for you to repair to New York and consult with us in relation to the matters contained in this letter.

Of course we shall look to you to see that your staff works in unison with Mr. Rich.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ву



Charles Matchelor, Esq.

Paris, France.

My Doar Batchelor:-

Your favor of the 4th, came to hand this

morning.

Edison states that he thinks very well of the idea of a 1000 light wire wound armature.

We have now sent models of the 23 and 50 light machines to Germany. This will give them models for the 21, 30, 100 and 400 light machines. I propose cabling and asking them whother they want model 200 and 300 light machines.

We were all delighted to hear that you thought of coming home. By letter of about two weeks back will have given you full information as to what we are doing here.

I could doubtless sell your Isolated steech at par,

Let am inclined to cable you asking whether it is necessary to do
this in view of Edison's authorization to draw on him for \$1,000.

I do not undorstand now whether you wanted \$1,000. or \$10,000.,
hopo it is the former, as money in the latter amount is very

Scarce horeabouts. I do not anticipate that I can get more than par for isolated stock, it is nominally quoted at 120 to 130, but atrictly onire nous I may state that it is a question whether the Isolated Company will pay their dividend this year, because their expenses are semething terrible, and it looks very much as if it is the old tale of bad management.

We have not yet been able to get a man to run the Armington and Portor engines, but as seen as we do so will send him forward.

Very truly yours

Royomber 21st. 3

M. C. Belknap, Esq. Troas.

Edison Electric Illuminating Co.

Highland Wational Bank,

Newburgh, N. Y.

Dear Sir:-

We bog to acknowledge receiption the 18th, inst. covering draft for \$0,500., being twenty five per cent due me under the torms of contract dated October 20th, 1883.

My ongineer will be in Nowburgh to-day to consult with the builders in relation to the building. We are pushing our street mains as quickly as possible, and will commonce shipping same meastine this work, and I as in hopes that our men will be in Nowburgh to lay the mains senetime next wook.

Immediately your building is well under way we can push our work very quickly, as we have the material ordered, and are simply waiting the finishing of the building.

Very truly yours,

attorney

Movember 21st.

Courge P. Bliss, Esq. General supt.

Chicago, Illa

Doar Sir:-

Again referring to your favor of the 14th. 1nst., I bente give you below copy of the memorandum received from im E. H. Johnson in relation to the trouble you complain of with the Automatic regulators:-

"I prosume this is due to the increased resistance of the magnet coil when heated. The resulty that occurs to me is to occasionally re-adjust the spring. I have not noticed any such action in our own."

Very truly yours,

Zun

November 21st.

A. A. Cowles, Esq. Secty.

19 Cliff Street, City,

Dear Sir:-

I have your favor of the 19th. November, and have the pleasure to enclose you herewith assignment of twelve and one half per cent of my antends with the Edison Electric Illuminating Company of Hollefonte, Ponna, I also enclose you copy of the agreement referred to for your files.

You emitted to send me the formal order for the wire, which heretefore I have been in the habit of executing.

Yery truly yours.

- 1

Revember 31st.

C. W. Cooke, Esq.

Post Office,

Grand Haven. Hich.

Door Sirt-

they named.

After you get through at Madison, Wis. please canwass Grand Mayon, Wiles, Mattle Creek and Tpsilanti, all in Michigan.

It would be as well for you to communicate with un John R. Markle,

1. 0. Mox 07, Detroit, Michi, an it is for his account that we are making the canwasses. Please canwass these towns in the order

Very truly yours,

lovember 21st

W. H. Dwelley, Jr. Esq. Treas.

Edison Electric Illg. Co.

Fall River, Mass.

Dear Sir:-

Your lotters and tolograms as to sending Groonfield on to Pall River came duly to hand, and we wired you last night that Fitch would leave this evening with one man and suggesting that you had better look up other men in the meantime. Of course the shorter the time that you keep Mr. Fitch in Fall River, the less will be the expense to yourself. I do not know exactly what you will have to pay for his services, but I presume it will be a small amount on ordinary wages and beard. However, I shall charge you whatever Greenfield charges me.

I am strongly of the opinion that your company should have nothing to do with the wiring, that is so far as the consumers are concerned. You know my vious fully on this subject, and I will therefore not trouble you individually.

Very truly yours,

Tinguadison Constn. Dort.

By

A

Inul it. Dyor, Esq.

101 Carondelet Street.

How Orleans,

Doar Sir:-

I enclose you herewith information as to part of the

territory that it is desired should be canyassed in ...ow Orleans.

Of course you will canvass considerably outside of the area named.

Yours truly.

November 23nd, 3

H. M. Doubleday, Esq.

care Edison Electric Illg. Co.

lawronce, Mass

Dear Sir:-

I send you berewith a book of questions and answers, and would draw your attention to the fact that it is marked for private use only. You must not show this book to anybody whatever without the permission of this office. I also return you your answers, on which you will notice a few rewarks by Mr. Rdison. We says that the answers are very good, and that you can post up with the further assistance of the book sent you to-day, and Mr. Andrews. Flease return your answers when you have looked ever Mr. Edison's remarks.

Vory Truly Yours,

Thos. A. Edison Constn. Dopt.



Danbury

November 22nd

Hossrs. Marris & Robinson,

Trust Co's Building,

Hartford, Conn.

Dear Sirs:-

We have your favor of the lath, inst.

We were unable to answer it by return mail as the writer was out of town. You will find in the Danbury estimate under the head of "Starting Station" 350 lamps are put in at sixty cents each, but since the estimate was made the price has been reduced to fifty cents. The customers do not pay for the lamps. They are paid for by the Company, just the same as the Company would pay formed in the running expenses. In fact lamps are part of the running expenses. The local company will have to pay firty cents for the lamps, which is the same price as the Lamp Factory sells them to all its customers. The lamps you refer to are the sixteen candle lamps, and those are sold at forty cents. Our lamps will average upgards of 900 hours life, but no exsolute guarantee is given as this. As a matter of fact they average considerably where them 000 hours, and we set this time of burning in order to be within the mark.

We sent you yesterday all the information we have about

Brockton.

noenidos a nieros. .erezo:

,brultand,

The Newburgh Company was formed sometime ago and the plant is now being erected. Withinnthe last week we have closed contracts for Bellefonte, Penna. 800 lights, Mt.Carmel, Penna. 500 lights, Fazleton, Penna. 1,000 lights, and these plants are now being erected. Besides these we are running a plant at Tiffin Chief for 1,000 lights. We have in all six central stations now in the course of construction, besides Sunbury, Shamokin, Lawrence and Brockton, which have been running some considerable time now.

Thos. A. Edison Constn. Dopt.

Þу

November 22nd

Charles T. Hughes, Esq.

Morgan liouse,

Poughkoopsio, N. Y

Friend Fughes:-

Again referring to your favor of the 15th. inst.,

Mr. Edicon says that he does not like the idea of lighting Rondout and hingston in the way you distribute. I would suggest that talk

to Mr. Rdison about the matter the next time you see him.

Very truly yours,

Ties. A. Edisen Censtr. Dept.

True

A Y

Bergmann November 22nd.

Messrs, Bergmann & Co.

25.5 Avenue B. City

Dear Sirs:- .

Have your received from Hilan two sockets? We have a letter from them in which the following occurs:-

"We have sent to Bergmann # Co., upon the suggestion of Min-Bailoy, two sockets out of the 500 of the last shipment. We have found them so roughly made, besides the general defects of the new model of key sockets, that we will not take them without a reduction in price of not less than fifty per cent."

Very truly yours,

November 22nd. 1983.

David Wilson, Esq.

545 West 33rd, Street, City,

Doar Sir:-

Will you ploase make one set of zines for the 200 light machine of the motal you would propose using, providing we gave you orders for our zine castings at 5 4 cents per pound. What we want to get at is the quality of the motal, how we can work it and its tensale strength.

Please lot us have this as early as possible.

I enclose you formal order to cover it.

Very truly yours,

The Edison Bachine Works,

November 22nd;

- -

Demas Barnos, Esq.

20 Park Row, City

Dear Sir:-

Referring to your favor of the 7th, inst., my opinion on the application of electricity to cars is that the motor should in most cases be placed directly under the cars, and that for small reads, such as street railreads, clovated railreads in New York or the underground railread in Lendon, electric locometion is the coming method. I think that after one read has been operated in this country electrically, so as to gain actual experience and a chance to surmount what difficulties and objections may be found, that success would be comparatively easy.

Yory truly yours,

Jak

ovomber 22nd,

J. H. Gerry, Esq.

bock Box 50,

Elgin, Ills

Dear Sir:-

Referring to your favor of the 10th, inst., there is no substance that can be used in the place of carbon pencils for an are light that will not wear away.

Very truly yours,

Tac

November 22nd

3

James Harris, Esq. Secty.

Bollefonte, Pa.

Dear Sir:-

I have your letter of yesterday's date, together with plan of building. The size of building you give us is 20 x 76. The size of building we have allowed for is 28 x 40. The extra amount telegraphed to Mr. Shaw for which we increased the 500 light plant to 800 lights entirely approximate, and on we find that we can erect a brick building for you of 26 x 40. instead of the frame building, as called for in the estimate. We had no idea when Mr Shaw tolegraphed for the additional estimate that he proposed to close a contract on the basis of it, or wo should have written a letter reducing it by several hundred dollars. We cannot put a building up of the size that you name for the price given in our estimate. We understood from Mr. Shaw that this whole matter was settled, and that our plans and estimates were accepted, and we have consequently instructed our Superintendent, Mr. Rich. to build the building 20 x 40, and have: this day telegraphed him to construct a brick building instead of a frame building. The building is so arranged that at any time it may be thought advisable to therease your plant it can be done

by onlarging the building economically.

the Bick is now in Bollefonte and will no doubt see you about these various matters, but his instructions to put up a building 26 x 40 are absilute, and if you require any alterations, I would magniful you to advise me of it immediately, but I would warn you that if such alteration is requisite it will very materially interfere with the installation of the plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

ŀу

November 22nd.1883.

Davenport, Treney & Co.

Jersey City, 'N. J

Dear Sirs:-

Poferring to my interview with your Mr Davenport this A. M., I beg to inform you that our Superintendent, Mr. Suldan, will call on you and give you an order for on zine base as a sample. I wish to got at the quality of the metal, how we can word it and its tensile strength. After we have worked your eastings in our shop, we will then settle about giving you an order. I am compolled to pursue this course of a bid I have from the men who is now making our zine bases.

Vory truly yours,

The EdisoneMachine Works,

November 22nd.

S. Elliott Rec

Dosigner & Builder of Special machinery.

Dear Sir:-

I have your favor of the 17th, inst. Nr Jackson worked for me a year or more, and I believe him to be a thoroughly
first class mechanic, and especially need on experimentallwork.
He is possibly rether prouddof his ability, perhaps too much so,
but still I found it very easy to get along with him. I always
found him sober and reliable.

Vory truly yours

2ar

November 22nd.

Thomas P. Conant, Esq.

Weavers Mational Hotel,

Shemokin, Ponna,

Doar Sir:-

Will you kindly ask Mr. Ployd if he would undertake wiring jobs at MT. Carmel and Bellefonte, providing we can get the work for him. We might find it convenient to use his men at those passes. Toylding he as willing to give attention to the matter.

Very truly yours,

Thomas A. Edison Constn. Dopt.

Ьу

November 22nd.

Y. S. Androws, Esq.

Jawrenco, Mass

Doar Sir:-

Your favor of the lith, inst. came duly to hand.
We cannot understand that there should be trouble with either the
marine glue or sulphate of zine, as we order exactly what is used
at the central Station. We are, however, arranging to have the
sulphate of zine tested by Grower at Seweck Street, and with relation to the marine glue, Mr. Chinnock has promised to ship same to
"you. I note what you say about clear glass bettles and will
attend to it in the future. I will have the fixtures you refer to
sent on. I will harry the variousmaterial you ask for and I can
assure you that we invariably do that anyway.

Vory truly yours,

Thos. A. Edison Constn. Dept

Ву

SJ

Personal,

November 22nd.

W. S. Androws, Esq.

Lawrence, Mass

Door Sirt-

I wish you would pay partisular attention to the movements of Jounard. Judging from the postmark on his letters he m
must spond a good deal of time on boston. Certainly after you
leave lawrence he should stay there at nights and in the day time.
The fact is I do not feel very much confidence in him, and I wint
to know whether I am justified in my opinion or not.

Yory truly yours,



Movember akind.

. D. Rich, Esq.

Bush House,

. kellefonte, renna

Door Mir:

I bor to enclose you letter from Mossrs. James Harris & Co. giving prices of material at Hellefonte.

I telegraphed you this A. M. instructing you to put up a brick building in place of the frame building originally contemplated at Bellefonte. I also enclose you a blue print of the Bellefonte station.

I have a lotter from James Barris, the Secretary of the Bollefonte Company this morning, in which he mildly suggests that we put up a brick building 26 X 70 for the same price as the one we proposed putting up. I have written him that it was my understanding that the estimate and arrangement of the station had been accepted, and that you were instructed to put up the building 26 X 40, and I have suggested that he should see you about the matter. What they want to get is an alloyway down the side of their property. This you can arrange by having the front of the building 26 feet. Of course if Mr Harris objects to putting up the present building, you had better telegraph for instructions.

2

am going to sond a wireman to Tiffin Saturday or Sunday night. All your material is ordered and well under way.

The Pall River steam piping was shipped from Philadelphia yesterday

I wired you this A. M. stating that there was trouble at Brockton, owing to the leakage of steam piping at the joints.

I trust you will be able to sain someone to fix this prior to your roturn East.

If you propose coming to New York on your way from Penna.
I will most you at the office anytima except Saturday evening.

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ву

 \mathcal{A} .

Dina Lamina

Novomber 22nd.

John T. Perry, Esq.

caro Edison Electric Illg. Co.

lawrence, Mass.

Door Sir:-

I ber to advise you that free this date you will be credited with a salary at the rate of 3122 for week, and that should we require you to leave Lawrence to go elsewhere, we will any your travelling expenses. As soon as you become more valuable in our work we shall hope to pay you better, but meantime the salary named above will cover your expenses of boarding, and inassauch as we pay your travelling expenses, you will no longer be under any personal expense, which you were under in learning our work. Hoping this will prove satisfactory to you, I remain, Yery truly yours,

Thos. A. Edison Constn. Dept.

Ву

8

November 22nd.

3

Societe Industrielle et Commerciale Edison, Ivry-sur-Seine, Prance.

Doar Sirs:-

Referring to yearblaver of the 12th. October, I bg to give you below prices of the various Armington & Sims engines purchased by us:-

I prosume the ten per cent royalty should be paid on the prices named.

Very truly yours,

Tell

Goorgo W. Soren, Esq.

care Porter, lowrey, Soren & Stone.

3 Broad Street,

Doar Sir:-

I beg to enclose you herewith check for \$381.03, boing balance of the amount due Judge Forter, Mr. Stone and yourself in connection with the sale of the Colonial light latents to Edison's Indian & Colonial Electric Company.

> Will you please acknowledge recipt, and oblige, Vory truly yours,

. J. Sprague, Esq.

care Edison Electric Illuminating Co.

brockton, Mass.

Doar Sir:-

I have your favor of the leth, inst., for which accept
my thanks.

I think you will find that in other stations arrangements have been made to put the indicators as far away from the dynamos as possible.

Your remarks about steam piping shall have the attention of Mr. Rich.

With relation to Pall River, we have work themes for you have in New York, when you get through at Brockton, in which you can be more valuable to us than at vall River. We regret not being able to semply sith your request in this connection.

We will send you the information about the spare dynamos
in a day or two. It will, however, be some little time before
the Brockton Company can get small machines.

Very truly yours,

Thos. A. Edison Constn. Dopt.

· D...

November 22nd

. 3

I. W. Serrell, Esq.

140 Massau Street, City.

Dear Sir:-

I have your favor of the 15th, inst., and in reply beg to state that I do not see that I is necessary to add anything to the arguments in interferences A to I and No.1. The argument seems to cover everything and to be quite full enough.

Very truly yours,

Jac

Nevember Stind

E. H. Jord, Esq. Treas.

Lawrence, Mass

Dear Sir:-

I have your favor of the 17th. inst., but I have been unable to answer it until this morning, as I was not at all sure when I should be able to ship the machines to you. I am hoping now to be able to ship the machines senetime next week. I fully recognize the importance of your having them and I will not keep you waiting one moment longer than I can help.

Very truly yours,

Thes. A. Edison Constn. Dopt.

A

ovember 22nd. 3

E. H. Jord, Esq. Treas.

Jawrence, Mass

Dear Sir:-

Referring to your favor or the 16th, inst., 1 have annwered you elsewhere stating that 1 hope to be able to send you the machines for your central station semetime next wook.

The 200 and 300 light machines which you require for leolated business you can have about ten days or two wooks after the machines are sent you for your central station.

Thos. A. Edison Constn. Dept.

Вy

3

N. Stilwell, Esq.

Monlo Park, N. J

Dear Sir:-

will you please have the doors of the office, laboratory, machine shopsand other buildings, which it is not absolutely necessary to have access to, nailed up, and a fresh lock put on the doors that it is necessary to use. I should think the simplest way to do is to have the same lock put on all the doors you require to open, and have one key to open the whole of them.

While Alfred Swanson is working for us, he is entitled to have access to the laboratory, machine shop and engine room, but after he gets through his work of course he should give up the key. Forhups the beter would be for you to open the door for him every day and lock it up at night, but this is a matter on which you can suit your own convenience. What we wish to accomplish is to prevent all unauthorized people from getting into the luboratory.

Yours truly,

SI

3

essrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

will you please have a test made of the battery cell that we sent down to you semetime are.

I onclose you patent. Please roturn the patent with report as to test. We want this immediately.

Yours truly,

SJ

Enclosure

Battery !

Hovember 23rd.

A. A. Cowles, Esq.

19 Cliff Street, City.

Dear Sir:-

I am promised a test of the battery in the course of a day or so, and will send it down to you immediately we get it.

Yory truly yours.

November 23

.

Frank S. Marr, Esq. Troas.

Edison Elec. Ill minating Co.

Sunbury, Fenna,

Dear Sir:-

Referring to your favor or the luth, inst., I beg to return you herewith the plan of Subbury indicating where you want the extension of your lines made. Will you please mark on the plan the maximum number of lights for use on this extension and their position, so that we can calculate what size the conductors should be.

Do I understand that you are wanting some of the new kind of wire. If so, I will sond it to you, as I have some in stock.

Vary truly yours,

Thomas A. Edison Constn. Dopt.

Ву

}

Frank S. Harr, Esq. Treas.

Sunbury, Fenna,

Door Sir:-

Since writing to you this morning your letter of the lith, has come before us. It has been mislaid and we must applorate for the apparent neglect in not replying to you before.

The price of the new form of emble is furty two cents a pound. I have quite some of it in stock, which I ordered in order to get the first lot made. We are getting excellent results from it, and think it is the best thing you can use. If you will give us some idea of the size of the wire you want, we can then send you sufficient cable for your purpose.

Again apologizing to you for our neglect yours above referred to, we remain,

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

When I was in brockton I arranged with you to have a photograph made of the building. Has this been done? If not, when will it be done?

Very truly yours,

W. S. Andrews, Es

Lawrence, Mass.

Poar Gir:-

I send you herewith duplicate blue prints of the stations at Bellefonte, Mt. Carmel, Maxluton and Tiffin, and shall be glad if you will sketch on same the dispusition of the switches Sc., as suggested in yours of the Adnd. For the future I will

send two copies of blue prints of the central stations.

Very truly yours,
Thomas A. Edison Constn. Deut.

Bv

'Spencer Borden, Esq.

Sass.

Dear Sir:-

. Referring to your favor of the 21st. inst., we are very much surprised that you should have altered our estimate for Natick. If you have no objection we would prefer that you should leave us this privilege. We consider that the Norwich estimate is complete in itself and does not require any alteration. There thore is a margin of engine capacity and a margin in the dynamos, we do not think it at all necessary to put in a spare. You must remember that we are putting for a 1,000 light plant exactly the same engine that we use for the 1,000, and we also sond to the station extra parts of such machinery that it is possible will break down. We do not think that we should leave it to the local people to say what they want in the way of a plant. We consider our experience in this connection a great deal better

Very truly yours.

Thomas A. Edison Constn. Dept.

Novombor 23rd

Judgo J. F. Bunn.

Tiffin, Chic.

Dear Sir:-

We have your favor of the 19th, inst.

Our material for wiring has been shipped to-day, and our set Isaac Walker, who has chargeof the inside wiring, will be in "liftin in all probability Tuesday or Wednesday mext to man the work there. We think that you will find that that will be in planty of time for the starting of the station."

Vory truly yours.

Thomas A. Kalson Constn. Dept.

Hovember 23rd: 3

W. S. Andrews, Esq.

ronce. Mass

Dear Sir:-

We have your favor of the 21st, inst, and will take your advice and keep, a supply of chemicals on hand,

Very truly yours,

Thomas A. Edison Constn. Dept.

y - <

A. Stuart, Esq. Secty.

Cincinnati, Ohio,

Doar Sir:-

Referring to your favor of the leth, inst., I certainly think that efforts should be made to put plants in some of the town already canvassed, before anything is done with relation to canvassing other towns. The expense of the work is considerable and I should not care to go should making any more canvasses unless Major Eaton instructs me to do so.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

Bv

e dangda .

Chroles T. Hughes, Esq.

Morgan House,

Poughkeopsie, N. Y

Door Sire

I do not at all like your Rondout-Kingston scheme.

I do not think that we have get far enough ahead to follow it out.

Thomas A. Edison Constn. Dept.

E

Ŀv

Bowenhor 23rd.

C. E. Chinnock, Esq.

207 Fearl Street, City,

By Dear Chinnock:-

This will introduce to you Br. A. S. Bovis, who wants to got as much information as possible in the course of a few days at the Central Station. By Bovis is going out for as in connection with our central station construction work, and any facilities you can rive him to post himself will confer a favor upon.

Yory truly yours

LI J

November 24th.

Major S. B. Est on, President.

GS Fifth Avenue, City.

Dear Sir'-

to beg to acknowledge receipt of your favor of the said, inst. instructing us to make canvasces and estimates for Polyoke and New Redford, Mass.

We hope to be able to cond a canvascor the commonce this work within a few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

S J

В

November 24th.

Major S. B. Euton, Prest.

45 Fifth Avenue, City.

Door Sir:-

We have to acknowledge receipt of your favor of the agree, inst, instruction us to convess the following towns in Pennsylvania:-

Wellsborough, Hauch Chunk, Pottsville, Pottstown, Janeaster, Lewisburgh, Eilton, York, Union City, Wilkesbarre, Scranton,

Very truly yours,

Thomas A. Edison Constn. Dopt.

B*y*

November 24th.

John Mullon, Esq. Troas.

Shamokin, Ponna.

Dear Sir:-

We are in receipt of a letter from wears, Borgmann

6 Co., in which they quote the following extract from a letter
received by them from you:-

"Under contract 250 temperary fixtures, shades, holders and suckets were to be furnished. Only 240 were shipped or received by us."

We have before us at the present measure the statement which was presented to our Mr Insull, when he went to Shamokin to settle our affairs there, and which he was teld specified the material received on account of the centract between us, and under the heading of "temporary fixtures" you enter only 200 and give us credit for that humber. In your letter to Pessrs, Bergmann & Oc. you now acknowledge having received 240, and ask for a credit for 10 temporary fixtures, insanuch as the centract called for 250. We might here state that we held the receipt of Un W. M. Douty, the President of your Company, for 350 temporary fixtures, sockets and shades complete, but insanuch as you have only paid for 200, notwithstanding your statement to Messrs, Bergmann & Oc. that you

Recoived 240, we cannot understand why it is that you ask us for a credit for 10 more. Although we accepted your statement of the material received as being correct, it would not appear to be the case, judging from the above; in the instance we have quoted we are satisfied that it is not.

Yery truly yours,

Thomas A. Edison Comstn. Dept.

Mossrs. Rabcock & Wilcox,

30 Cortlandt Street, City.

bear Sirs;-

In making shipment of the boilers you have on hand for us at the present time, will you floase forward them as follows:

| Hazolton from Elizabethport, via Philadelphia & Reading,
| Boilefonto, via Ponnsylvania R. N.

We have secured special rates over these lines.

Are you putting the names of the different companies on these boilers, as usual? If you have not done so in the case of the boilers already shipped, will you kindly fut the names of the Companies on the boiler you have on hand. For instance, the Bollefonte boiler should hear the name "Edison Electric Illuminating Company of Bellefonte", and the others should have the name of the Company in the same way, according to the town it is intended for.

Very truly yours,
Thomas A. Edison Conetn. Dept.

b)

The Armington & Sies Co.

Providence, R. I

Dear Sirs:-

In relation to the 14 x x is engine for Nowburgh, which will be ready for shipment within a few days, will you please sand it to Hazleton, Penna, instead. The Newburgh station will not be ready for some time, and we do not wish to be obliged to "store more material in Newburgh than is necessary, and we can use this engine at Hazleton as soon as it is roady. Floase send it via the New York & New England, Steamer "Maryland" and lehigh Yalloy R. R., as we have secured special rates on this route, which we wish to take advantage of.

We have secured special rates to Bellefonte, Fenna. via New York & New England and Fenna, R. R., and when you are shipping to that point, please take those routes.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

November 27th

James Barris, Esq. Secty.

bollefonte, Fa.

Dear Sir:-

I shall be plad if you will give me an order for any 230 lumps, so as to have lawps on hand at starting the station. Those lamps we shall hill to you at exactly the aumo price as if they were bought from the lamp Puctory direct, namely, 30 conts, and the only object I have in asking for the order is so that we shall have the right to order lamps forward at such time I may find it necessary when they are required.

Yery truly yours,

Thomas A. Edison Constn., Dert.

. . .

Rovember 27th.

F. J. Sprague, Esq.

- Brockton, Mass

Dear Sir:-

We have your favor of the 22nd, Hovember.

We have put some of the lamps with the wire in the center upon a test at 64 candles, and find that they have just as f good lare as the regular lamps, which proves that the platina practically makes as difference.

horgann is getter along nice; with the twelve indicators, and we will send some forward to you do soon as they are completed.

Very truly yours,

Thomas A. Edison Constn. Nept.

Ви

Roycemer 27

d. S. Andrews, bag.

Bear Siri-

Referring to poors of the Sand. Inst. yeu can by conferring sich ir. Tick himself arrange to have the feedera prompte into a central station at points mustable to your self. I all taking up the question of chemicals for and so trying to make those a little sector than they have been.

Very truly yours.

Movember 37th.

W. S. Andrews, Pag.

". " Dear Sir:-"

Referring to your favor of the 24th.

Roy, 7 think the object you speak of, morely, being advised of the progress of br. Pich's work, will be best done by your amaunicating with him.

Yery truly yours.

.1..

Novomber 37th.

W. S. Androws, Esq.

Lawrence, Lass.

Doar Sir:-

Referring to your favor of the 23nd, inst, we have talked over with he Edison what your title should be, and would suggest "Chief Electrical Engineer." How does that strike your It is better than "Electrician". You know electricians are in no great repute with he Edison as a rule.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

Бу

kovember 37th.

.,

ir. F. S. Laar.

Sumbery, Pa.

)car Sir:-

Referring to fours of the Edrd. inst., are there no other lights on the extension for precess putting up besides the 50 mentioned in the end of extension. Shall we only istimate for 500 of individual our copper so as to early more lights in the future? If he, state the proposite masser.

Yory truly yours,

. C. Belling, Esq. Treas.

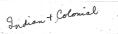
Edison Electric Illumination Co.
Highland Mational Hank,
Memburga, M. Y.

Doar Sir:-

We enclose herewith revised plan for the central station building to be arrected at Nowbursh, and we would impress upon
you very strongly the necessity of having the work done in strict
accordance with this plan. Any deviation from it, however slight,
it may appear to you, may seriously interfere with our urrangements, and we will have say that we will not hold ourselves responsible for any defect in the internal arrangement of the station,
should the same be caused from our plans not having been accurately
carried out. We write you thus strongly on the subject, as with
us if is a vital point, and trusting that you will see that our
requirements are not by yours contractors, we are,

Yory truly yours, Thomas A. Edison Constn. Dopt.

Бу





Movember 28th

Major Flood Fage, General hanager.

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue.

Iondon, E. C. England.

Door Sire-

We have a letter from Mossrs, Droxel, Morgan & Co. asking for further documents, and which we have handed to them for transmission to Iondon.

We cabled you vestorday as follows:-

"Tube Company supplied material absolute price contract. You should remit immediately comply our understanding Extremely surprised your delay. Will mail detailes:

The Tube Company's material was bought by us on an absolute contract, and they are not in the habit of supplying us with thoughtfullertost, and it has been our rule to accept their bills right along. Where an absolute figure had been given on a cortain amount of work, they accomedated us by giving us a detailed bill, which, as above stated, has been sent forward,

We cannot consider this, however, a sufficient justifi-

for your holding your remittance. We bought this material for you, hald for it and shipped it without any profit whatever to cursedlyes, and solely asks courtesy to you, and hance our request for an immediate resistance.

My Frivate Secretary, Mr. Insull, will be in london about the 20th. December, and will call upon you, and any information you may desire as to our business he will be able to give you. W. H. Dwolley Jr. Esq. Treas.

Vell River, Mass

Doar Sar:-

Referring to your favor of the with. inst., I cannot tell whether the small pair of dynamos will be reasy by the time you mention or not. Even if they were I think that we should althoughty run the large engine. In fact we should run both of them, as we should want to get the whole of the plant in good running order. before the period is up for us to hand it ever to your company. I cannot see where the great waste of power exmes in in running the large engine, and even if such were the ease, I would remind you that themselves and even if such were the ease, I would remind days, and it can therefore be hardly a matter of interest to your Company whether we have to run the large or small engines during that period. As the Corel Communical will be any other than the conditions.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Ru

W. J. Jenks, Esq. Kanager,

brockton, Gass.

Dear Sir:-

Referring to your favor of the 24th, inst., we beg to state that the books and forms, which weepropose furnishing have been delayed in consequence of the absence from the city of Col. Coddard, with whom we are very anxious to confer before settling on the final forms. He has promised to No into it at the first opportunity, but as he is going to do it as a favor to us, we of course cannot press him to do so at any time that it might inconvenience him.

I think that the best thing that you can do is to go chould and use your judgement in the matter, and when we get our forms out we will give you the option of taking them or not.

With relation to Er Sprague, I find that I shall require him in New York. When the small dynamos are ready so can send some one, probably from Fall River, to put them up for you. I cannot give you at the moment the figures as to the proposed exchange, but will do so as early as possible.

Yery truly yours,

Thomas A. Edison Constn. Dept.

Вy

November 28th. 3

G. W. Wilbur, Esq.

Hotel Weinmeister,

Atlanta,

Doar Sir:-

We have your favor of the 25th, inst., and are glad to hear of the progress you are making.

I have sont a check to Mr. Magnus V. Miles as requested, and have written to lyons that if he cares to come on here, I can set him at work. I will advise you later as to where you are

Very truly yours,

Thomas A. Edison Constn. Dept.

Theodoro N. Vail, Esq. General Manager,

American Bell Telephone Co.

95 Milk Street.

Boston, Mass.

Dear Sir:-

I shall be glad if you will send me a specimen of the Inertia Carbon Transmitter you now issue, having the new form of lettering with "Edison Carbon Telephone" across the box.

Be kind enough to attach to the transmitter a certificate staing that all your transmitters are now issued in that form,

I wish to use this in London in negotiating with the Bnited Telephone Company, who I am anxious should follow the same course as that adopted by your Company. If you can let me have this before Docember 5th., I shall feel obliged, as I wish to send it to London by the hand of my Private Secretary, who sails immediately after that date.

Vory truly yours,

Tak



"Cashier."

Cornenia Bank.

215 Bowery, City.

Dear Sir:-

I onclose you herewith the information requested as to the Edison Electric light Co., The Edison Co. for Isolated lighting and the Edison Electric Illuminating Co. of New York.

The Light Co. has a controlling interest in the Isolated Co., owning Co. the Isolated Co., owning Co. the Isolated Co. as the Jight Co. has called a 20 per cont interest in the Ilaminating Co.

The paper that we have submitted to you for discount, and which you have kindly obliged us by so doing, was that of the Edison Co. for Tsolated lighting. This Company's business is to install electric light plants in mills and factories, and it obtains its license to do so from the Edison Electric light Co., which controls it.

The Edison Electric Illuminating Co. of New York supplies light on a motor in the district bordered by Wall, Massau, Spruce Streets and the Bast River.

Mr. Edison relations to these dompanies is that of manufacturer. He supplies them with dynamo electric machines, lamps and electrical sundries. Our main customer is the Edison Co. for Isolated Jighting, who take a large amount of material from us right along. Whe Edison Floetric Illuminating Co. has its plant creeted, and consequently buys very little from us at the present time. The Edison Floetric light Co. is simply a patent owning organization, who do nothing beyond selling licenses to use their patents, and they also defray the cost of in Edison's experiments in connection with any improvements or inventions he may get up on his present system of electric lighting.

Resides the above Mr. Maison acts as a general contractor for the installation of electric light central station plants. Our modus operandi is as follows:

A company formed in some town gets its license from the
Edison Eléctric light Co., the local company requires a plant
creeted, in order to enter into the business of selling light,
or in other words, the Company with the local gas company for
business, and Mr. Edison himself undertakes the contract to creet a
plant for such a local company at a given contract price. He
does this work by permission of the Edison Electric Light Co.,
who are the sole owners of the patents.

Any further information that I can give you I shall be glad to or if you care to make an appointment, I will come down to

1883-11-28

soo you and explain matters further to you, as it is our wish that you should be fully posted in relation to the matter.

Very truly yours,

Thomas A. Edison Gonstn. Dept.

ı, y

Enclosure.

November 28tt

. 3

Messrs, Ecrris & Robinson, Es

Martford, Conn.

Dear Sirs:-

Referring to your favor of the 20th, inst., I do not at all believe in the scheme you propose. By experience is that if we depend upon other peoples believe and engines, our lights are not satisfactory.

Yery truly yours,

Thomas A. Edison Constn. Dopt.

James Harris, Esq. Secty.

Pallefonte, Penna.

· Doar Sir:-

We bog to confirm the addition of \$200, agreed apon by yourself and our Kr. Rich to be paid as in consideration of increasing the size of the building. Said payment to be in addition to the amount agreed ajon in our contract with you for the proction of your central station plant.

Very truly yours,

Thomas A. Kdison Constn. Dept.

H. Ward. Leonard, Esq.

Lagrence, hass.

Door Sirt-

We have your two favors of the sith, inst., which do not explain to us the reason for your wanting to draw \$100. the asked pointedly for an explanation from you, as we wanted to know whether we were in error in your accounts. Will you please let us know.

we must confess

We have your new form the use for which we do not under-If you have any new forms or anything else new, will you . please let your ideas flow in the direction of this office and not to Mr. Jonks or any other manager of local companies. We wish to have the privilege of deciding what is the best form to use, and we are very glad to have any suggestions, but we wish to pass upon thom before they are communicated outside.

I send you by this mail a book of "Questions & Answers". which may give you a great deal of information. This book is for your own personal and to be shown to anyhody.

. I shall be glad to have from you such a report as you gave us from Brockton as to the number of lights burning &c. Please sond your answers to the questions here.

Very truly yours, Jau J

November 26th.

C. P. Lyons, Esq.

Center Street,

Dorchester Station,

Boston, Mass.

Dear Sir:

Br. 6. w. Wilbur informs me that you would like to have a position as canvasser with us. If you care to come on immediately we can send you out to work.

Very truly yours,

Thomas A. Edison Constn. Det.

ву

Hovember Zoth.

Mossrs, Markle & Hall,

l'. 0. lock Box 57,

Dotroit, Mich.

Dear Sirs:-

We have your favor of the 27th, inst., and in reply, boy to may that we will see that Eattle Creek is convessed after trand Navon, and will leave Niles out as suggested.

We have been compelled to withdraw Er. Cooks from your territory temperarily, but he will return there inside of two weeks Yory truly yours,

Thomas A. Edison Constn. Dept.

Вy

November 25th.1063.

W. P. Dwelley Jr. Esq. Treas.

Pall Ravor, Mass.

Dear Sirt-

We have your favor of the 20th, inst., and very much recret that the second of light machine has not been shipped, but we had trouble with the eastings, which when delivered to us proved derective and we had to have a new set made. Our Supt. precises now to ship the machine by Saturday or wonday at the latest. The various articles you refer to as missing shall be supplied.

Very truly yours,

The Edison Machine Works,

1: ++



hovembor suth.

3

A. A. Cowles, Esq.

. 16 Cliff Street, City.

My Doar Sir:-

We have had the battery which you sent for test duly tested, and give you below our tester's report:-

Internal resistance, one ohm: strength, 1.18 volts: current, 1.18 amperes. When put on short circuit it runs down yory suichly.

Our testor reports that he does not think at all well of the battery.

Yery truly yours.

2ac

November 25th.1663.

Gustav Soldan, Esq. Supt.

1 104 Goerck Street, City.

Dear Sir:-

I am getting into very serious trouble indeed at the long dolay in connection with the shipment of the 330 light machine for Pall River. I really think that the matter should have been hurried a little more than it has been, and I must insist that this machine mask be shipped to Pall River immediately. Unloss we are a little more prompt on our shipments we shall get a very bad reputation. It must now be six or seven weeks since I asked that the machine be get ready.

Floase the shop, as I must telegraph to wall River this morning

I may say that the Fall River Company are prevented
from lighting a mill and getting a large payment on a big contract
in consequence of our delay, and they naturally feel the opposite
of matisfied.

Very truly yours,

The Edison Machine Works,

Ву

.

U. H. Painter, Asq.

Box BU,

Washington, D. C

Bukund Paintor:-

Di you over got a letter from me asking for a map

of the United States: Our office is starving for one.

Cannot you manage to get one for us?

Very truly yours,

November 26th.

M. Stilwoll, Esq.

Monlo Park. N. J

Dear Sir:-

Referring to your favor of the 20th, inst., I wired you to let Mr. Claudius have a key of the laboratory. So long as he is at worl there as a member of Mr. Clarke's staff, he is entitled to a key.

Yery truly Juns

لگر

Rovember 26th.

P. B. Shaw, Esq.

Williamsport, Penna.

Doar Sir:-

Mr. Edison insists that you telegraphed him instructing us to canvass Carlislo, Ponna. I have no record of any such telegram in the office, now do I recollect ever having received one. I have a telegram for you telling us to canvass Wellsborough, and we hope to send a canvasser there kenday or Tuesday at the latest. Will you please let me know at your early convenience whether you telegraphed any one else, as he may have heard of it through other channels?

Yory truly yours,

. .

November Suth.

William Schwenk, Esq. Prost.

Mt. Carmel, Fenna.

Dear Sir:-

Referring to your favor or the sith, inst., I think that it would be very poor policy on the part of your Company to undertake to do any viring itself. Our experience is that in such cases the local company has a very great deal of trouble with the companers in collecting their bills, and we find it the best policy to have an outside party do the wiring of houses in the same method in which this is done at Shamekin. I am trying to arrange with for Ployd to do your wiring at Ut. Carmel. I think this would be the most economical thing for you to do. Ployd is the man that does the work at Shamekin. No is within easy reach of Mt. Carmel, and is connection with the Shamekin work should be able to handle the work pore communically than a local man at Mt. Carmel could, if they you have no education to the work boing done by Ployd, and my only object in suggesting him is an stated above.

Very truly yours,

Thomas A. Edison Constn. Dopt.

ну В

Movember 38th.

.

N. Stilwell, Esq.

Menlo Fark, N.

Doar Sir:-

in Claudius reports that the clock has been removed from the laboratory and taken down to the house at Henle Park. This clock is the property of the Edison Electric Jaght Co., and in Claudius is responsible for the same. The clock should be sent hack impediately.

Yours truly.

July

O. Stratton, Esq.

35 Oliver Street,

Boston.

Doar Sir:-

Referring to your favor of the 27th, inst., I do not know where you can buy the duplicating ink you refer to, but I have some in stock that I am not at present using, and shall be glad to lot you have same at cost if you will lot me know how much you want.

November 25th.

F. J. Sprague, Esq.

Brockton, Mass.

Doar Sir:-

Please let us knew at your convenience how your friend, who is at the Ereckton station with you, is posted on our work. Is he capable of taking care of a station? Also has he a sufficient mechanical knowledge to allow of his fitting up the interior of a station? Also please let us know his name and how we can reach him, us we want to see about putting him on our electrical staff. Also what was his experience before he went to Breckton

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ba

81

November 25th.

F. J. Sprague, Esq.

Brockton, Mass,

Door Sir:-

Will you please arrange to return to New Yor at the earliest possible moment. You should leave things so that Mr. Jonks can permanently get on without any assistance from us. It is ouite time wexignification to run thinks by themselves.

Yery truly yours,

Thomas A. Edison Constn. Dept.

B:

10

Hovember Atth.

3

George H. Bliss, Esq. General Suit.

Chicago, Ills.

Dear Sir:-

Referring to your favor of the 20rd. inst., will you ploace lot me have a minute account of your various troubles with the automatic regulator, and I will andonyor to give you a remody for some.

very truly yours,

aa

I have Johnson working on

Charles Batchelor, Esq.

Paris, Franco.

My Door Datchelor:-

Will you please let me have an explanation of the enclosed, which appears in the Defect Rook for November 24th.

"Extract of letter from Pr Hennis, at Milan to Mr hatchelor. Cet. 28. 1652 - "The Armington & Sims ongines work budly. We soldes can run a night without changing thom off once or twice during the evening. It seems impossible to keep them to the work, and up to new it takes just twice as much oil that a "Forter" does.

We have had another accident with a Forter engine by breaking the crank rin. This makes two pines that we have broken and I find that both rines were derective, and that cracks were in the steel when rut up.*

Very truly years,

November 28th.1883.

Goorgo H. Bliss, Esq. Goloral Supt.

Chicago, Ills..

Doar Sir:-

We have your various letters making complaints about defective armstures.

In "1" armsture Mc.110, A we found a piece of a knife blade sticking between two commutator bars. This certainly was not done in our shop, as it would have been apparent before the armsture loft the shop, as the armsture was tested before we sent it out.

"k" No. 105, A was shipped at a time when we were changing Superintendents, and this may have caused the trouble, as we cannot place on anybody the responsibility of shipping the armature referred to.

Vory truly yours,
The Edison Machine Works,

hovember Zuth.

C. H. Gooko, Esq.

lost Office,

Williamsport, Ponna

Door Sir:-

when you get through at Williamsport you are to go to Battle Crook, Rich., after that you will probably have to canvass Hillsdale, as Hearrs, Earlie's Hell have decided to drop out Milos, but they will however advise you.

Very truly yours,

Thomas A. Edison Constn. bept.

November 28th. 3

The Armington & Sims Go.

Providence, R. 1

Dear Sirs:-

We desire to jut another fulley on the U 2 2 10 engine now at the property of the prosent machine now attached to the engine referred to.

Very truly yours,

Thomas A. Edison Constn. Dept.

Fovesbor 29

I send you by this mail a may of

C. H. Cook, Fsq.

Dear Sir:-

Williamsport from which you will gather where we propose running our tains in that city. The canvass ous sade according to the eld rules of the Edison Electric Light Company, and is, in our opinion very defective. We want you to make an entirely new canvass of Williamsport and to take more territory extending boyand headens street. You must of course be very careful to take in the whole outside where we now propose to run our mains and as much more as possible. This work should be done by you as promptly is possible, and each day you should send forward the result of your provious nights work as we are to plot the canvass as quickly as possibly and can do this to better advantage if we have daily reports from you. It is also very important that you should conduct your work without letting the local people know the object of your visit as so propose closing the contract on the old canvass and desire this new canvass made for our own information. The importance of getting through this work rapidly you will recognize when I tell you that we expect to close the William sport Contract on Londay next and start our work there, whereas we will

be thanke to order our copper until so have completed the convass that you are about taking and shall have made a new determination on the oculs of same.

Yery sruly yours

Thomas A. Fdison, Construction Department,

36

lovember 30th

E. H. Johnson, Esq.

202 Avenue E, City

My Dear Johnson:-

I wish you would look into the trouble with the automatic regulator, with relation to which you will find several items from Chicago in Defect Book, 24th, Notember. If you will give your immediate attention to this matter you will obline,

81

El. St. -



November 30th.

Comitato per le applicazioni Bell' electricita sistema Edison in

Milano, Ttaly.

Gentlemen: -

Referring to your favor of October 4th., we beg to enclose you copy of a lotter which we have just received from Messrs Bergmann & Co. The statements contained therein are perfectly correct and your request for a reduction in the price of not less than 50 per cent is very unreasonable. If sockets were sont you from Bergmann & Co. such as you send a sample of it was an error thich could be rectified by allowing you, as Borgmann & Co. suggest, the difference between the price of the two sockets, namely, 10 cents. Those sont you were not roughly made but simply a socket which we use for factory work. We cannot undorstand how there can be so much trouble with them inasmuch as we are using the same secket here right along. The information you ask regarding other matters has been sent forward to you and the various material requisitioned for by you has all been ordered. by private secretary, Mr. Insull, is going to Furope carly in Dec-

and when in Paris he hopes to get a settlement of the outstanding account against your Company. It is uncertain whether he will be able to get as far as Filan. If he does not he will represent our views to the Paris Co. I shall feel very much disappointed if he comes back without a complete settlement of our outstanding claim against you inasmuch as we have had to pay the total abount and have by no seems received reimbursement for

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Ore atmost bouledno etm. organ

of and on a right reductor to transfer research throughpy. Transis and comes on a locator all distances that the properties of the properties of the first transis.

ak aoelbi sabibka situtatuato ittaa taatse.

Wessrs. Marklo & Hall.

P. O. Hox 97.

Dotroit, Mich.

Dear Sirs:-

Your favor of the 2th, inst, was received this morning. We will send Mr. Cooke or another canvasser back into your
torritory within the next few days.

Very truly yours,

Thomas A. Edison Constn. Dopt.

В¥

Edison Cons

keyember 30th

3

John P. Fogers, Pa4.

Boston, kass.

Dear Sir: -

Peferring to your favor of the 20th inst., if you will give me the name of a stationer in Boston who would carry a stock of duplicating ink, I would arrange with him to supply it.

Very truly yours.

2al

Hoverson Stah.

A. Stuart, Fag.

Door Sir:-

Peferring to your favor of the 28th., % nave only just get your map of EMEXERIER Chillicethe Claished.

I not send you same by this sail under separate cover and shall be shed if you will get me central station lots within the area marked. If shall also be glad if you will have the emclosed special report willed up and returned at the earliest possible moment. I do not think that this town would stand more than an about light plant. If you will return the map with control station lots indicated and also the special report, I will push through an definate in the shortest possible time.

Very truly yours,

Thomas A. Udison, Construction Department.

Hoyombor 30th.

J. J. Harmer, Pag.

Leipziger Strasse 90

Berlin, Cortagny.

Dour Sit: -

ber.

Your favor without date came to hand yesterday. I still disser it at length within a day or so. Ty Secretary, Er. Insull, will be in London the latter end of Boschoor. He hopes 5. to get to Serlin and sill try to do some pusiness sith your company. Will you please advise him of your covenents. Its address in London will be

S. Ynsull, Jr.

31 Surton Crescent,

hondon, W. C.

England.

He will probably arrive there about the 20th of Decem-

Very truly yours.

2ak

Poyember 30

Bessrs dermann & Co.

Centlomen: -

We have a telegram from his Walker at Tiffin in which he says that you have quoted 15 per cent to a Church Committee at Tiffin as the discount on fixtures whereas his Shaw told the Committee that your discount was 35 per cent. It. Walker asks us which is correct and I have sired him that the discount quoted by you is correct. Is it not possible dr you to willow here than 15 per cent on a good order for fixtures?

Very truly yours,

Thomas A. Farson, Construction Department,

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5-4

13

F. R. Upton, Esq.

Dear Sir:-

I mog to enclose you letter from Compagnic Continentale Pdison. Fr. Eddson has requested me to take this matter in hand and whilst in Paris to open a negotiation with the Compagnic Continentale on the following basis:

We to have the right to sell image to any of their lidomneous at such prices as we may consolves desire to quote to them
but to pay the compagnic Continentale a royalty of one cent a
lamp on all lemms so sold. The Compagnic Continentals to undertake not to sell lemms obstants of their territory. This applies pursicularly to Farland. Will you please let me have your
views on this subject in writing, so it is an important matter and
I will to be in perfect accord with you in anything I may do in
Paris.

Very truly yours,

81



Nov. 30th.

A. Srmart, Pag. Seaty.

Dear Sir:-

Peferring to your favor of the Blat. inst. we found on Er. Incell's return to Ken York that we had already made 11 determinations in order to get the contract for Tiffin so we thought we sould give Tiffin a little rest, and that is the reason you have not had any further determination. I roturn you he ewith br. Sunn's lotter with some personal notes of he. Edison thereon which will give you the data on which to reply to that contlemen. With relation to lighting the streets of Cynthenia this would be dealt with in precisely the same manner as lighting the houses. If our mains ran through the streets we would just make a connection to a fixture on a pole, but inassauch as our mains as a rule run through the alleys se should be compelled to put up special pole lines which would really represent so much inside wiring. If street lights are required it should be so indicated on the Cynthania mag whon it is returned to us so that we can allow for the main carrying them in making our daterminetion. We would not include in our estimate the running of Apole lines unless you so desire. We could however make a supplementary estimate to cover this point. It certainly would

facks considerable difference in the estimate but how much I cannot tell until we get the above data from you. Our method is to calculate our mains to carry a cortain amount of current to supply lights in the residences. If they are to supply lights in the streets as well they must energ so much more surrent. There our mains run through the main streets we would attach our lamps to the same as above stated. Where they do not we should have to run special poles.

23

Very truly yours,

Thomas A. Edison, Construction Department.

hovember 30

A. Stuart, Faq.

Dear Sir:

Peferring to your fevor of the 20th.

inst, your statement which you mend us does not agree with that furnished by br. Dyor. Have written to Ker Orleans to him asking him to check your statement, and if he has made a mistake in the statement rendered to us by the we will impediately honor your shock for 7100.

Very truly yours,

Thomas A. Pdison, Construction Department.

Hovember 30th.

3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Messrs. Phemps, Bodge's Go. are very anxious to have about fifty lights installed in their office.

will you please investigate their lass hours and advise me as to the matter, as I should like to oblige them in compliance with the request of my friend Mr. Gowles, of the Amsonia Brans & Copper Co. Probably you could give them a less number of lights than they ask for, which lights would yield a good average lass hours.

Very truly yours,

Jan

December 1st, 1883.

Mossrs. Macphorson, Willard & Co.

Bordontown, R. J.

Doer Sirs:-

I wired you yesterday that your forgings were made of poor from in consequence of a complaint received from Mr. Soldan, our superintendent. We left the Bridgeport Forge people and ordered our material from you mainly on account of the Bridgeport from being somewhat poor. As the prices from each of you are practically the almost yould suggest that you see Mr. Soldan the next time you are in town and then come up and see me about the matter.

I am fully aware that the orders you have in hand were only received on the 23rd. November, but if you can hurry them you will sreatly favor us.

Very truly yours, The Edison Machine Works,

ny 8

Middletown

December 1st.

H. H. Hoffmann, Esq. Prost.

Ohio Edison Electric Installation Co. Cincinnati. Ohio.

Doar Sir:-

We have the pleasure to acknowledge receipt of your favor of the 28th, ulto, enclosing contract for the erection of a central station plant at Middletown, Ohio for 300 lights, contract amounting to \$13,695.1

To return you herewith the contract, which you will notice is signed "The Raison Electric Illuminating Company of ... The name Middletown should be filled in and the soal of the Company attached.

We also send you herewith a duplicate copy of the contract duly executed by us.

Under same cover we received your draft on the United States Bank of Sew York for \$2,130, and draft on Francis R. Upton for \$1,942,93 we will send you a receipt for these remittances as soon as Mr. Upton accepts his draft.

We would be glad to receive a list of the stockholders of the Middletown Company, so as to give us an opportunity of inquiring into its stability and financial standing. This will be

1883-12-01

Documber 1st.

unnecessary, however, it you will give us an undertaking that your Installation Company guarantees the contract with the Widdletown Company.

Our understanding with Mr. Stuart was that those contracts were to be made with the Installation company itself and not with the local companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

P)

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Enclosure,

Gruerunceri.

8

December Brd.

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A. A. Cowles, Esq. Secty.

19 Cliff Street, Cit;

mar Sir;-

T onelose you herewith three notes dated the 12th.
November, one for \$4,939.10 due March 15th., amother for \$4,088.90
due April 15th. and another for \$5,007.73 due May 15th. in settlement of the open account with you as arranged.

Will you please acknowledge receipt and oblige,

. Very truly yours,

Thomas A. Edison Constn. Dept.

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3-9

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W. S. Androws, Rsq.

Fall River. Mass.

Door Sir:-

We send you by express half dozen copies of the Engine and Boiler questions,

Any ongineers applying for a position should answer these questions, and you should see that they do this while you are present. Do not allow them to take the questions here, as we do not want them to have any outside assistance in answering our questions.

Very truly yours,

Thomas A. Edison Const. Dept.

12...

81

December 3rd.

W. S. Andrews, Esq.

Fall River, Mass.

Door Sir:-

We have decided that hereafter we will pick the resistance lamps used in the test banks. The volts may be low, but as you propose to have the banks separate from the line, justo afford a load for testing, this will not metter. We can tone the candle power down with a field resistance. Here you any objections to this course?

Vory truly yours,

Thomas A. Edison Const. Dept.

12...

A.

li. H. Noffmann, Esq. Prest.

Ohio Edison Electric Installation Co.

Cincinnati. Ohio.

Doar Sir:-

Again referring to your favor of Movember Joth., we bog to acknowledge receipt of \$3,492.33, being twentyfive per cent of the contract between the Edison Floetric Illuminating Company of Middlotown and myself and dated, said contractinging for the installation of a 500 to Incandescent Light plant at Middletown Ohio.

Very truly yours,

Thomas A. Edison Constn. Dept.

Goorgo M. Hopkins, Esq.

137 Tomple Court,

Citv.

Buaboer Sir:-

I have your favor of the lst, inst., and is reply bor to same that the trouble is I have an arrangement with hr.

R. N. Dyor, who has his office, here, which arrangement I am bound to hold to. I will see what I can do to bring you into some of our law cases, and it would not be a bad idea for you to remind me of the matter from time to time.

Vory truly yours

.

J. C. Reiff, Esq.

care Wearishoffer & Co.

54 Exchange Place, Cit

By Dear Reiff:-

Referring to your favor with relation to the Sayfort suit, I think the best way is to restione the matter just as long as possible, in fact carry out the same policy that has been carried out right along, meantime see what kind of a settlement can be made.

very truly yours,

Deles

December 3rd.

.

J. C. Roiff, Esq.

care Woorishoffer & Co.

54 Exchange Place, City.

Myabear Reiff:-

I have your favor of the 1st.

The trouble with you is shon you undertake to do a thing you never follow it up or come to see me to find out what progress is being made. I should think that instead of vaiting patiently man that you would come up here and see me. The next time you are passing you had better look me up and we will talk the matter over. I have no idea of breaking any promises to anybody.

Very truly yours,

Dar

December 3rd

Messrs. Armington & Sims Co.

irovidence, R. I.

Doar Sirs:-

We have your account of Movember 30th., handed to us by Mr. Moore,

We have no bills for the items of the 47th, and soth.

October of Sit. onch. With relation to the item of November Sird.,

30.47, for man sent to Receiten, we hardly think that this expense is charmoshle to us, and have therefore abstained from crediting your account until we hear further from you. As to the charge for engines sent to Shanokin 5775., as we wrote you, we do not think that you should charge us with this engine until it is clearly established that the troubles at Shanokin were our fault or the fault of our men. It is Shappens that the engine has never yet reached Shanokin.

Doducting those various amounts there remains a bulance of \$7,592,00, for which we enclose two notes dated respectively the 12th, and 25th. November for \$3,781.43 each. These notes fall due on the 15th, and 25th. February. Trusting that these arrangements will prove satisfactory, and requesting you to return the enclosed vouchers signed, we beg to remain.

Very truly yours,

S

December 3rd.

iber ard.

Isaac Walker, Esq.

care Judge J. F. Bunn,

Tiffin, Ohio.

Dear Sir:-

We received the enclosed letter from Mr. Bunn this Please return it after perusal.

You will, as he suggests, use the paragon cable wherever possible, providing the customers are willing that it be used.

We have a note referred to us by Messrs. Bergmann & Co.
in relation to more material asked for by you. All your communications as to business matters should be addressed to this office,
and anything you require we will send on to you, but you must not
send your orders to Messrs. Bergmann & Co., as they simply refer
your communications to us and we have to send them a requisition
instructing them to fill your orders.

We should also like to receive from you a report as to what you are doing at least two or three times a week.

Very truly yours,

Thomas A. Edison Constn. Dept.

Rτ

Docombor 4th.

E. H. Jord, Esq. Treas.

Lawrence, Bass.

Doar Sir:-

The two spare machines which you have asked for will be shipped from here on Wednesday. You will require a 40 driving pulley on each side of your U 2 x 10 engine and it should be set to run at 321 revolutions. To you propose to have the necessary alterations to the Ux x 0 engine made yourself or do you want us to take charge of it? Planse let us know at the earliest possible moment, as we wish to have the machines running for you as quickly as possible, also give us an order to cover the necessary regulatures, switches and electrical work.

Very truly yours,

Thomas A. Edison Constn. Dept.

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1883- 12-04

December 4th. 1883.

E. H. Jord, Esq. Toas.

Lawrence, Hass.

Dear Sir:-

We enclose you herewith blue prints of sketches which the Construction Repartment not up for use in their contral station work. The 200 light machine runs at 1,300 revolutions and the 300 light machine runs at 1,200. We also enclose you statement of the speed *c. of each machine we now make.

We will have the brushes you ask for sent forward in

Vory truly yours,

The Eduson Macline Works,

Documber 4th.

Hossrs, Farkle # Fall,

P. O. Pox 27,

Detroit, Mich

Dear Sirs:- -

Yours of the 1st. inst. to hand,

our Er. Cooke leaves Williamsport for Battle Crock either hande

to-day or to-morrow morning. Trusting that this will sat-

Very truly yours,

Thomas A. Edison Constn. Dept.

Ly &

Frank Maios, Esq.

care Wordester & reet Go.

Worcestor, Mass

Dear Sir:-

We have your favor of the 30th, ulto, and in reply would suggest that you we to wall Siver, when you have time within the next week or so, and call on our En Andrews and have a talk with him. On receipt of his report in relation to the matter we shall then be able to inform you whether we can offer you a position. If we do so, your reaumeration to start with would be very low, as it would be sensetime before your services would be of any great value to us.

Mr. Androws' address is V. S. Androws, care Edison Electric Illuminating co., Fall River, Mag.

Yory truly yours,

Thomas A. Edison Constn, Dept.

H. H. Leinter, Esq

Box 88.

Washington, D. C.

Briend Painter:-

The may of the United States came to hand yester-

I cannot find that letter which you state was written to you. Johnson says you only thought it was written to you, and he informed me that when he builted for it he could not find it either.

Very truly yours,

Mossrs, J. P. Rogers, & Co.

63 India Square,

Hoston, Mass.

Door Sirs:-

to state that I will communicate with Mossrs. Cotton & Guild in relation to the ink.

Yory truly yours,

Jak

W. C. Smith, Esq.

Poreman of Construction,

Rapid Tolegraph Go.

181 Broadway, City

Dear Sirt-

I shall be glad to see you if you are inclined to take a position with me in connection with the prection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dert.

lty

Mdison c

William Schwonk, Esq. Prest.

Mt. Carmol, Penna.

Dear Sir:-

We have your favor of the comber lat., and repret very main that "all the parties here are disgusted with the management". We are doing all we can to push the work, and the material, the supply of which we absolutely control, has rone forward. Cortain things we have to get free outside parties are being pushed as quickly as possible.

You can purchase all necessary material for virevery from Basses, Bergmann's Co., 202 Avonue P., New York. I think, however, the best way would be for you if Timit an amount you desire sent and order it through me, and I would be careful to see you got exactly what you wanted and at the proper prices. I am of the opinion that you would be far better served if you got Ployd of Shamakin to do your waring, in which case he would supply his own material, as he carries a stock of it.

Very truly yours,

Thomas A. Edison Constn. Dopt.

4. S. Andrews, Esq.

. P. O. Box 565, .

Fall River, Bass.

Dear Sir:-

We enclose you berwath lotter from Frank Maios of Worenster, Mass. So have informed this gentleman that he had better call on you at Fall Siver and have a talk with you in relation to what he wants. If he does so, will you please let us hear from you as to the matter, and if he is likely to turn out a good man we might start him as the rest of the nevices in our business.

Very truly yours,

Thomas A. Edison Constn. Dopt.

is S

Enclosure

3

W. S. Andrews, Esq.

Fall River, Hass

Doar Sir:-

The stare machines will be shipled to lawrence by Wednesday at the latest. When you go there to put them up will you please keep an exact time it takes on the machines used, as those are extra and outside of our contract and we have to charge these for it. Are the foundations all ready and has the lawrence Company had their ulax Io engine altered, so as to carry a driving pulley on each eid of the shaft. I have written to in lord about this matter by to-might's mail.

Very truly yours, Thomas A. Bulson Constn. hept

84

W. S. Andrews, Esq.

Fall Biver, Hass.

Dour Sir:-

Please let us know as early as possible when your station will be ready to start up at Fall River, as I think for Edison will se up to start it, and I accordingly would like to know, so that he can beoprepared at the time.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

...

Edison Con

. .

Docombor 4th.

The Armington & Sins Co.

Providence, P.

Door Sirs:-

You will notice that we have sont you in a number of orders for single engines, that is we propose running them in small stations without a spare. I spake to your Er. Sina semetime upo as to what extra parts should be sent with these engines, so as to enably our men to remedy a breakeown quickly. Will you pleane but me have by return a list of the extra parts that you think should go with the U 2 X 12 and the 14 2 x 13 engines, where they are put in a station by thomselves. I indly attend to his matter immediately, as I wish to settle on our policy in this connection before I sail for Europe.

Thomas A. Edison Constn. Dopt.

M. S. Androws, Esq.

Fall River, Mass.

Dear Sirt-

We bek to inform fee that we have received a telegram from Mr. Rich stating that the Yiffin station will be ready for wiring in two weeks,

Very truly yours,

Thomas A. Enison Constn. Dept.

by S.A.

. S. Andrews, Esq.

P. O. Box 305,

Fall River, Hass

Doar Sir:-

We want to got up a small book of examples around in placing lights and safety plugs. The examples should be made to scale approximately. Will you please collect them as you have leading and give sizes of wire used. I send you two rough enjois of book giving sizes of wire, one for services on three wire system and one for services and inside sixing on two wire system, both have one per cent drop. I will send you to-morrow one for two wire system with two per cent drop. You will notice that the lamps are all supposed to be placed at the expression, of course this is so with services but not so with inside wiring, but I think it best to have a surplus of wire services. I think you should not have but one per cent drop, but the inside wiring can stand two per cent, especially as it will not work bad, owing to the disposition of the lamps.

Very truly yours,

Thomas A. Edison Constn. Dopt.

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Rosers. Eimer & Amend,

305 Third Avenue, City

Dear Sirs;-

we have conglaints that the meter bettler which you sent out for as have iron in them in the form of iron scales.

This renders them absolutely esclose for our jurpose, as the cold solution which we put in the bettle of solution which we put in the bettle of solutions with the put in the bettle of solutions.

Will you please rectify that in future.

Very truly yours,

Thomas A. Edison Constn. Dept.

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James Harris, Esq. Secty.

Bellefonto, Fenna.

hear Sir;-

I give you below prices of the various leaps made:-

16 candle lamps.....

32 candle lamps..... /60

7.00

100 candle lamp, although apparently higher priced than the

lo candle lamp, as a matter of pact is more durable and is more

considered botter suited to the consumer and takes the place

of a fine jet. If the lo candle lamp is used extensively the

balls of your consumers will be 10 higher than their gas bills,

ostimating that you sell it at the same price and has. In fact we

look upon the 10 candle lamp as the

Thomas A. Adison Constn. nott.

By

The sphor 4th.

A. J. Brown, Esq.

Foreman of Construction.

Wostern Union Telegraph Co.

Jus Proadway, City.

Door Sir:-

I shall be glad to see you if you are inclined to take a position with me in connection with the erection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

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84

3

Mosers. Bergmann A Cu

202 Avenue E, City.

Dear Sirs:-

I notice in the supplement of your catalogue that you mention the various articles got up for the Construction Impartment. As the greater number of these things are made for use in connection with our and and the experience which results from their being made costs this perartment quite a good deal of money, I think that you should arrange your prices so that as to let us have the various afficies we order at better rates than you sell to other distomers, say an extra discount of fifteen per cent.

Will you please let me have your views on the subject.

Thomas A. Edison Constn. Dopt.

В

SI

Docombor 4th.

Messrs. Bergmann & Co.

202 Avonuo 8, City

Donr Sirs:-

To have very serious complaints from Fall Naver of the non-arrival there of the material ordered from you for fixing up the central station. We have four men there who are unable to work, owing to your not shipping our goods promptly. This dolay in a station of any sime causes us a loss of from \$20. to \$23. a day, bosides keeping us out of our money for our work considerably longer than would be the case if you would ship promptly. It seems to me very strange that you cannot get out a few switches in less time than we can have \$301076 shipped, stoam piping made, oneshes built and dynamos constructed.

Cannot you give me as absolute date at which you can ship our orders for Fall River, Tiffin, Mt.Carmel, Maxleton, Bollafonte, Middleton, Bollafonte, Middleton, Bollafonte, Middleton, Bollafonte, Middleton, Mt. The goods should go forward in the order montioned. We impressed upon you when giving the orders for these stations that it was necessary that the safety catches for pole line work should be shipped incodiately. It is now twolye or thirteen days since you received the orders and we have no notification of shipment, and we have three men who are waiting to use those safety catches. I am yory much afraid that we shall

2

have meanly \$250,000, worth of work to carry upwards of thirty days longer than we ought to, unloss you were to ship to us more promptly. If you are pressed why cannot you arrange to jut some one class back, as oursels certainly the most important, as the amounts involved in our contracts are so much higher than the Isolated Company or any or the Illuminating Companies.

Very truly yours,
Thomas A. Edison Constn. Dept.

y rel

December dib

Hossis, Rorgmann & Co.

202 Avenue B, . City.

Dear Sirs:-

We have your extremely pleasant letter of the lst.

If you do not know sho in Shaw is, considering the time he has been in our business, I think it shout time you do.

No is the State Manager for the Edison Kleetric light in Penna., and has some connection with the Chic Installation Company.

It is not our business to communicate with in Shaw and tell him what he should do or should not do. If you want any information conveyed to him about discounts we would suggest that you do it yourselves.

Yory truly yours,

Thomas A. Edison Constn. Dort.

December 4th.

Mossrs, Cotton & Guild.

34 Milk Stroot.

Hoston, Hass.

Door Sirs:-

We have frequent inquiries from Noston as to the duplicating link of mine which was sold extensively some few years bash, but of which none has been made for seastime past.

Hosers, J. P. Popers & Co. have suggested to me that I an addle with you to carry a stock. If you are willing to d. so, I will have some made up in my laboratory, and will soll it to you at a reasonable price. I am anxious to pursue some such course as this in order to oblige the people applying to me for it.

. Very truly yours,

Tak

l'orsonal

Docombor 4th.

A. B. Chandler, Esq.

44 East 14th, Stroot, City.

Priend Chandler:-

Yours of the 1st. to hand.

T have written to Brown * Smith offering them positions.

If you hear of any other men lot me know,

ory truly yours,

Paul D. Dyer, Esq.

161 Carondolot Street,

Now Orleans, Ja.

Doar Sir:-

I have your favor of the 20th, inst.

If you are not near ome at heristmas time we will allow you the amount of your expensed to get to dashington and back to the point where you are at work. I prosume you have nomobjection to this. Of course we sympathize with a man who goes into a town like New Orleans and buy his experience at the relief of \$30. I lesson.

Our business is betting along swimmingly, at the present time we are erecting the following control stations, Fall River, \$40,000. Nowburgh, N. .. \$60,000., wallorende, \$10,000. Nr. Carmel, \$14,000. and Newtonia. Side, one follows are in Ponnsylvania. Side, one follows, \$13,000. Iffin, Ohio, \$10,000, and Middletown, Thio, \$13,000. We shall start in Williamsport in the course of a yeak, contract \$33,000. Brockton, Lawrence, Shumokin and Supplyy are running elegantly, getting all the customors we want and making money. This is the state of our busi-ness in byer.

I have been going for our boys in the office for not sending you gullstine, but they do not contain any information assets

about our contral stations. The New York Central Station is just "booming", collections 210,000. For month. Fave more customers than we can possibly carry, and if we get through Bocember without a broakdown it will simply be that the "angels" are on our side, as we have too many lights connected already.

I sail for Europeloh the lith, December and shall be away until the lst. Pebruar and if you so not get any word from this officenthat you can go home to spend christmas just take "Fronch leave", and charge your expenses in your weekly statement and if they "kick forch them to this letter.

very truly yours,

-December 4+1

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A. H. Chandler, Esq

44 East 14th. Stroot, City

Friend Chandler:-

Yours of the first to hand.

With relation to Colonel Sherman, he goes to Bucnos Ayros solely for the Edison Electric light Company, and I cannot soc how it would be possible for him to do business for any one class. No is as you state a "Quoer dick", but soems to be an indefutigable worker.

Very truly yours.

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December 4th, 1663.

A. A. Cowlos, Esq. Socty.

le cliff Street, city,

Dear Sir:-

I am still receiving complaints from our Superintendent of the delay in Shipping him wire and bars for armatures and magnets. Cannot you hurry ferward a heavy shipment, so as to give us semathing to work on. The quantities shipped to us are go small right along that we are continually in arrears and consequently obliged to continually complain, which I can assure you is very distanteful considering the manner in which you oblige us in other contracts. Is

I am having a statement projected of the exact shipments made within the last few months. I will come down and see you about the matter probably Thirsday or Priday.

Very truly yours, The Edison Machine Works,

Ву

December4th, 1883.

W. H. Ewolloy, Jr. Req. Troas.

Fall River, Cass.

Doar Sirt-

We have your favor of the let. inst., and immediately on receipt of some arranged to berrow an armsture from the Isolated company, in order to accomments you under the erromatances. We wared you thin sorming that the armsture would be shapped this you make reasonaber that we do not loop a stool of annothers of the old form of machines on hand, and consequently we have more difficulty in filling your orders for some right away.

Try you was a manuture it takes at least two weeks to make

Yory truly yours,

The Edison bachine Works,

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81

W. P. Dwelley, Jr. Esq. Treas.

Fall Mayor, Mass.

Door Sir:-

We have the pleasure to achnowledge receipt of your favor of the lat. inst.

The spare dynamics were shipped to Mr. Andrew either on Saturday or Henday.

We purposely her them the meter supplies to until the other work is practically completed, as our experience is that pure get lost in the confusion of getting the station in order.

We will, however, have everything necessary shipped forward this wook.

, Temporary fixtures and Insulating joins will all go forward. Jamps will in all probability go to-day, if they were not shipped yesterday.

Very truly yours,

Thomas A. Edison Constn. Nort.

Docombar 4th

E. H. lord, Esq. Treas.

lawrence, wass.

Doar Sir:-

The ruch surprised to receive your favor of the 30th, November. If you will look over your contract you will find that the third jayment is due thirty days after the plant is in condition to supply light, and your plant has been in condition to supply light considerable time, and what I ask for is for a payment on account, and there is a balance left which, together with the extra tubes laid, gives an ample margin for any such troubles as you speak of. You are short about \$100, worth of meters at the procent time.

Your indicators are made in accordance with the indicators for up by the Engineering Department of the Add roof Electric
light company, but notwithstanding this I propose to replace them
as seen as I have a stock of an indicatorsof a more recent design,
which I got up myself within the last month. I am not compolled
to do this under my contract, but propose to do it in order to give
you an article which, in my opinion, is best suited to your busi-

Our Superintendent claims that the work is done properly and asserts that every other injector has been connected in the same vary classifier.

You state that your engines have ten inch belts, when they should have twelve inch. This is simply a matter of opinion on your fart. We have not allowed more than a ten inch elsewhere.

I sould request you to reconsider your decision as to withholding the cheel for \$5,000., as I think I am fully justified in asking for it at the present time, more especially as we have lost considerable money in the installation of your plant at lawrence.

Very truly yours,

Thomas A. Edison Constn. Dopt.

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51

December 4th.

Mossrs, Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We think, in roply to yours of the outh, ulto, we profor to wait and make a successful installation rather than risk failure, which the plant you suggest would in all probability load to.

Very truly yours.

Thoman . A Edison Constn. Boyt.

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7. J. Jonks, Esq. Henegor,

Doar Sir:-

We shall be ready to ship the two small muchinos to brockton sometime this work, and we shall be glud if you will send us by return an exact plan of that part of the engine room showing the position of the present small engine and dyname, also the position of the large engine and the two dynames. What I want to find out is whother it will be necessary for us to move the small engine of the large engine and the two dynames. What I want to find out is whother it will be necessary for us to move the small engine from its present position, to enable us to drive two dynames from each saide of the shart. If this is necessary it will add very materially to the expense of making the change, but if it is unnecessary on the shart with the engine and make the necessary connections for about \$650. In this of course we allow for taking back the present "I" dyname which you now have. I will write you to-morrow giving absolute figures for which we will make the change.

Very truly yours,

Thomas A. Edison Constn. Dopt

10.

Hear Engines

December 4th.

Mosers, Earris & Robinson,

Turnor Louse.

Danbury.

Donr Sirsi-

We have your Payor of the 25th. November, and in reply bon to state that our business boing a peculiar one we have to use material best adapted to it. The babecel & Wilcox boiler is the only one which we can use and rely upon. It is a quick stomning boiler and takes care of the great variations in our load, which rises often from the to 130 horse power in the course of ten minutos. We have tried every other kind of boiler and find that it is the only one we can use. The old fubular boiler is very much chemper, but absolutely of no use to us.

About throe years are we experimented on every form of engine we could find and have ever since continued the same experiments. We have never, however, found an engine suitable to our business as the Jawrence engine. It would take too long to go into all the reasons for explaining the advantages of it, so it must suffice for me to say that it is as much a part of our plant as the dyname, and we shall continue to use it until we find some other engine equally as good as that manufactured by the Armington & Sims Co.

Vory truly yours,

Pique

becombor 4th.

3

1. H. Hoffmann, Esq. Prest.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 30th. November enclosing chapter for Sq.490.75, being twenty five for cent of the contract price for the creation of a central station plant at Figua, Chio.

I shall be glad to hear from you whether the contract is to be made with your Company or the local Illuminating Company of Fiqua. Tamediately on receift of this information I will send you signed contract. If the contract is to be made with the Fiqua Company, please send as full information as to the office of the Company, copy of the subscribers and amount of their sub-

seriptions.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

Qua Docombor

3

A. A. dowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

To enclose you hard ith order for siz for Figua, Ohio.

Floase have the mecessary payors sade out and forwarded to be for signature. The mecess of our controls such the Edison Electric Tiluminating Company of Figua, Ohio is \$13,070.40

Yory truly yous,

Thomas A. Edison Constn. Dept.

11--

Enclosure.

A. A. Cuwles, Esq. Secty.

19 Cliff Street, Donr Sire-

Referring to your fever of the 3rd. inst., will you please have the necessary papers in connection with the order for the middleterm, thic, wire. - ur contract is with the Edison Electric Illuminating Company of Middletown, Chie, and the amount of seme is \$13,909.31

> Very truly yours, Thomas A. Edison Constn. Dept.

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boar Sir:-

I am some to leave here for Europe on Tuesday next, and should very much like to this with me a letter from you as brasident of the Sunbury Company, stating your experience with your plant and the learth of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This vall be of immonse assistance to me in dealing European
Ath some of Mr. Edison's friends. Will you so far oblige by sending me this as soon as you can.

Vor/ truly yours,

December 3th.

V. B. Bouty, Esq. Frest.

Shamukin, France

Dear Sir:-

I am pring to loave here for Europe on Tuenday next, and should very much like to take with me a letter from you as President of the Shmackin Company, stating your experiencewith your plans and the length of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immoned assistance to Me in dealing with some of Tr. Edison's European friends. Will you so far obline by sending me this as soon as you can.

Very truly yours,

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Mossrs. Bradstreets,

21.1 Broadway, City.

Bear Sirs;-

I shall be plad if you will inquire into the standing of the Rdison Electric Illuminating company of Elddlatown, Butlor County, Chio. The stockholders are, we understand, as follows:D. He Callay, P. Wilson, C. P. Johnson, C. H. Wardlow and J. F. Thomas, besides some Cincinnati jurtics with whom we are acquainted What we particularly want to know is the standing of the gentlamon whose names we mention, and what is thought of this Mow Company in Hiddletown.

Very truly yours,

Jak

December 5th

3

W. D. Rich, Esq.

Dear Sir:-

Referring to your plan of Hellefonte, I regret to inform you that the sketch you have sent us indicates that the arrangement of the interior of the station is entirely opposed to the mothods which Mr. Edison desires us to pursue in designing the interior of stations. Of course this is a matter which you could not be posted about, but I would be glad if in the future, before making any alterations in our plans, you would please refer the questions to this office, so as to give our engineers an opportunity of expressing their opinion of the matter. You have placed the cylinders of the engine as far away from the boiler as possible whereas it is Mr. Edison's desire that it should be as neartto the boiler as possible, so that the engineer can attend to his throttle and see thaths boiler is all right without moving from one position.

I am afraid that whom Mr. Solson comes to visit Bollofonto he will criticise very severely the proposed arrangement
there. Are your foundations so far advanced that it is impossiblo for us to alter the arrangement? If so, of course we must
leave the matter as it is, as there is not sufficient margin to
allow of our building the work up arein.

Tax going to have a plan prepared with the same size building as you have arranged, but with the machinery and interior of the station stranged so as to conform with Ur. Edison's ideas as to the matter. He is very positive in his instructions on these questions or olse I should not trouble you as to the same involved.

There is also another feint, whenever you alter the plan of a building you should advise us of the exact alterations, either before the alterations are made, which would be preferable, or if that is impossible after the work is completed.

We desire to make some alterations at Brockton just now it

and we understand that the plans in our office of the station shows by no means the same measurements as the arrangement of the station itself. Our machinery is always placed with the idea of offecting alterations at the least possible expense. We have to take out one "!" dyname at Brockton and put in two dynames, each of half the capacity of the "!", and these we propose driving from a pulley on each end of the shart of the "2 x 10 engine. We very much fearthat we shall have to take the engine down and build a new foundation in order to do this. We have written to "the Jonks for the exact measurements, as Mr. Sprague informs us that our plans are incorrect, as I have stated above.

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W. S. Androws, Rsq.

Vall Rivor, Bass.

Dear Sir:- .

A Hr. Spencer, a friend of Sprague's, is very anxious to start in our business.

I have requested him to report to you at sall River.

You might start him in like the rost of the novices and see what
however, of. or Edison says that he is very well posted and
wall turn out a very useful san. Flease advise us the dae he
arrives, in sall River.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

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December ith.

John Ott, Esq.

393 Avenue B, City

Dear Sir;-

HIR Tate complains to be that he does not thank that
the orders of our construction bejortment have any particular
attention down of the laboratory. If he has reason to make this
complaint mean, I shall bring the matter to be Edison's attention,
as I wish you to understand that it is important that any instructions we issue as to our material should receive prompt and therough attention.

Vorý truly yours,

Thomas A. Edison Consta. Dept.

Charles T. Ruphes, Esq.

horgan House,

Poughkeopsie, N.

Doar Sir:-

Referring to your favor of the 2nd. December, will you please get the authority from Rajor Eaton authorizing us to canvass and prepare estimates for Fingston & Rendout.

Mr. Bruesi has not yot boon able to let us have his two estimates for haverstraw and Foughkoopsic. Immediately he does, however, we will push the estimates through as quickly as possible.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

Bv

SI

Frank H. He.Cormick, Esq. Prest.

Williamsport, Ponna,

Dear Sir;-

We wrote you on the 19th, November asking for a

Sottlement of our account with the Edison Electric Illuminating

Will you please let us hear from you in relation to the

matter.

Very truly yours.

Thomas A. Edison Constn. Dopt.

У

December 5th.

John Mullen, Esq. Treas.

Shamokin, Fenna.

Doar Sir;-

We wrote you on the 20th, November, asking for a set-

tlement of our account with you, but have received no reply.

"ill you please send us a remistance by return.

Very truly yours,

Thomas A. Edison Constn. hert.

Hy 38 0

December 5th. 1883.

W. H. Dwelloy, Jr. Esq. Treas.

Fall River, Hass.

Door Sir:-

You will greatly oblige us if you can arrange us a remittance by return mail for the amount of our account wannet you.

We enclose you herewith statement showing balance against you of 31,051,75

Very truly yours,

The Edison Sachine Works,

Enclosure.

Docombor 5th.

Goorge Grower, Esq.

Testing Room.

104 GoerckStreet City

Doar Sir:-

I sond you herowith helf a pound of the unique of zinc from Powers & Woightman. I shall be glad if you will test this and give us an exact xxx record of the test. Hosers. Powers & Woightman claim that this is as good zinc as I to a Fink's chomical pure.

Yours truly,

Thomas A. Rdison Constn. Dept.

Ву

Enclosure.

December 5th.

7. I. Garrison, Esq. Treas.

Boston, Mass.

Doar Gir:-

we enclose you heresith statement of account which explains itself, and shall be glist to receive your check for the balance 31,437,43 at your early convenience.

Yory truly yours,

Thomas A. Edason Constn. Holt.

By

81

Enclosure,

December 5th.

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I. Woinschonk, Esq.

50 Wost 24th, Stroot,

Doar Sir:-

Referring to your favor of the 3rd, inst., I will call at your place on wonday next about ten o'clock.

waste amost

200

December 5th, 1888.

Western Edison Jight Co.

Chicago, Ills.

Dear Sirs:-

We beg to enclose you herewith statement of account showing balance against you of \$2,350.15

I shall be very much obliged to you if you will allow us
to draw on you at sight for this assumt, and if we do not hear
from you by telegraph to the contrary we shall send a druft forward for collection on Saturday next.

Trusting that you will be able to oblige us, we beg to

Very truly yours,

The Edison Machine Works, -

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Enclosuro.

Docember 5th. 1883.

Mosers, Borgmann & Co.

203 Avenue B, City.

Dear Sirs; -

If you have that block of slate, will you please send it down to Soldan immediately, as Mr. Edison wants him to work it up into a commutator right away.

Very truly jours,
The Edison Sachine Forks,

Docembor 5th.

3

George H. Miss, Esq.

Chicago, Ills,

Dear Sir:-

We have your favor of the 3rd, inst.

One 82 canale lump is equivalent to two 16 canale lamps.

You must have the dyname you refer to in a hot place, or also you do not leep the brushes at the non-sparking point.

If they are placed two blocks away from the non-sparking point,

the machine will heat more, even it 50 extra lamps were put on it.
We are improving our new machines in the matter of commutators.

We must confess that we cannot understand why it is, but the troubles with machines seen to compare your corritory, as we do not hear of any troubles from any other places that amount to anything.

Very truly yours,

2ak

December 5th.

Bosses, Borgmann & Co.

203 Avenue P, City

Door Sirs:-

Referring to your favor of the 5th, inst., we cortainly think that we should receive the special articles we use at prices better than these at which you sell them to outside customers. Of course we have to charge in our contract a higher price than what we pay you for the soods. Consequently unless you pursue the course we suggest, we shall be in the position of charging more for your material than it can be bought from you direct," which certainly is not advisable considering that the articles which I refer to are such as you make particularly for us, and any outside customer would certainly not require any such quanti-Why cannot you arrange to allow us a discount of 30 per cent and office people a discount of 10 per cent, or do I understand that you have already quoted 30 per cent discount. I could I should think that if you had not, that you could make an exception in the ease of central station articles as against the discounts you allow on articles of general manufacture. Yory truly yours.

Thomas A. Edison Constn. Doit.

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Decomber 5th.

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G. D. W. Vroom, Esq.

Trenton, k.

Dear Sir:-

Referring to your favor of the 3rd, inst., if you will send on the affairst that is necessary 7 will execute and return it to you forthwith.

Very truly yours

He

Straight Line Engine Co.

Syracuso, N. Y

Poar Sirs:-

Referring to our correspondence as to the straight line engine, I shall be glad if you will build me a lo x 12 engine, having two driving pulleys thereon 50 inches in diameter and 11 inch face. We should require to fun the engine at speeds varying fred 200 to 270 revolutions. We shall have to depend on you entirely for drawings, as we have no drawintsmen to send you.

Jak

Docember 5th.

P. B. Shaw, Esq.

Cincinnati, Ohio

Doar Sir:-

We have a report from one of our men at wiffin stating that you quoted diper cent discount to some local parties there for Bergmann A Co's fixtures, showns Bergmann A Co, have quoted in per cent. Bergmann A Co's discounts vary according to the mature of their orders and the people they are dealing with like mature of their orders and the people they are dealing with like mature of their orders and they have asked us to request you not to mention discounts in the future.

Yory truly yours,

Thomas A. Edison Constn. Dept.

ву

21

becomber 6th.

Francis R. Wpton , Esq.

East Howark, N. J.

Doar Sir:-

Mr. Androws writes us that for the future he will run the bank of test lands separate from main line in stations. If the lamps are picked the matter of low volts will be of no consequence.

Very trul; yours,

Thomas A. Edison Constn. Doit ..

1...

5-9

C. W. Wilbur, Esq.

Post Office.

Mobile, Ala.

Dear Sir:-

Your favors of the 27th, November and 2nd, December ease duly to hund, and we are obliged to you for the information contained therein.

I have referred the matter of lighting the hotel to

I telegraphed you to-day to Atlanta to canvass Mobile and Manville, Va. We have no connections in either of these places, so you must choose a district for yourself, making thosanvass as comple as possible.

You had botter try and arrange your canvasses so as to

About the commencement of the New You we shall start you at work in Boston canvassing there, and shall irobably keep you Bast some time.

Your friend lyons is in Wellsborough, Ponna. . He will be in that State that whole of this month.

Yory truly yours,

Thomas A. Edison Constn. Popt.

F

December 6th.1883.

Mossrs. Woodward, Sherwood & Co.

17 Montgomery Stroot,

Jorsey City, N. J.

Donr Sirs;-

We have now a pattern shop in connection with our Works at Goorek Street. Will this make any difference in our

Very truly yours,

The Edison Machine Works.

14 -

82

December 5th.

G. B. Marile, Jr. Esq.

Mazleton, Fenna.

Doar Sir:-

To have your tologram of this date, and at once telegraphed to our Superintendent, who is now in Ohio, and we hear from him that he will be in Hellefonte on Honday and will in all probability be in Healeton the next day.

Very truly yours,

Thomas A. Edison Constn. Dopt.

by 1 6

December oth.

Frank S. Marr, Koq. Treas.

Sunbury, Penna.

Door Sir:-

We have information that your emineer get drunk the other might and left the station in clarge of a boy, and we also hear that your lights are very poorly regulated, and that the City letal people have threatened to ro back to Gas unless there is a change for the better. We trust that this is not so, and write you for information.

Yery truly yours,

Thomas A. Edison Constn. Dept.

Εv

37

Docember oth.

- 2

W. D. Rich, Esq.

Post Office,

Rellefonte, Penna

Dear Sir:-

We have your various telegrams and beg to confidence the sevent telegrams we have sent you as to Ht. Carmell Hellefonte

It does not soon to us that the worf in these places is being sufficiently pushed. "This is no fault of yours, but artses from the fact that you have so much to handle, and we would remaind you that we spoke to you when you were here and thought you hade a mistake in not having men who could take the initiative in starting work, even during your absence you have get to do something of this character with them.

To-day we have telegraphic instructions that williamsport has been finally closed and work will have to proceed there right away. We will send all the information about Williamsport to Pazleton, where we presume you will be about Menday.

Enclosed please find check for \$500, as requested.

Yery truly yours.

Thomas A. Edison Constn. Dept.

24.5

December 6th.

Thomas Sponcer, Esq.

South Maridan, Conn.

Dear Sir:-

If you are willing to start in our business and loarn our central station work, please report immediately to Mr. W. S. Andrews at our central station in Wall River, Mass. You can find out the exact location of the station by applying to Mr. W. N. Dwelley, Jr., Treasurer, Edison Electric Illuminating Co., Norden Block, Vall River.

Until such time as your services are valuable to us we will allow you a meaning salary of \$10. for week and railroad fares att.

Floase advise us immediately if you decide to start in

with us.

Very truly yours.

Thomas A. Edison Constn. Dopt.

ну

89

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Deer Sir:-

We have your telegram stating that the lot has been purchased in Piqua, and we have also received a telegram from our Caperintedent stating that he would be in Fiqua to-morrow morning.

To must confess that we fool formathat annulate that he should be kept in Siddletown with practically nothing to do, as his time is very valuable to us indeed, and we would urge you in the ruture to be sure that you have gur lot purchased before

Very truly yours,

Thomas A. Edison Constn. Dept.

чу

54

December 7th.

W. S. Andrews, Esq.

Pall Rivor, Hass

Door Sir:-

lounard is very abstous to go out to thio. We simply wish to notify you of his widnes. It must rest with you entirely as to whether he should go there.

Yours truly,

Thomas A. Edison Constn. Dept.

БЗ

\$

Decomber 7t

W. S. Andrews, Esq.

Pall River, Bass,

Dear Sir:-

bly a month or six weeks work at Mt. Garmal. The last I heard or him from you wan that he was at lawrence. If he is there still when will he be disoningsed? Flower wire me on receipt of this, as I have a letter in the office which I cannot answer until I hear from you.

You's truly,

Thomas A. Edison Constn. Dept.

Ву

Docember 7th.

3

L. L. Van Praag, Esq.

i. O. Box 624.

Salt Jako City, U. T.

Dear Sir:-

In roply to your favor of the Muth. Movember, Mr. Edison desires me to state that were he not well versed in the laws of electrical science he would be unable to make any progress whatever. I may myself add that he long series of successful electrical inventions have never been known to be the product of casual thought.

Yours truly

SH, PS

Docombon 7+1

W. S. Andrews, Esq

Fall River, Mass.

Dear Sir:-

I am oblined to you for your favor of the 6th. inst., onelosing design for three wire cut-out. The matter is having the attention of Mr. Johnson and No will doubtloss got up a cut-out for the purpose in time,

Very truly yours.

Thomas A. Edison Constn. Dopt.

Ву

1 son 6

Docember 7th.

0

J. N. Blauvelt, Esq.

23 Clinton Placo, City.

Dear Sir:-

I have made inquiries with relation to the references you gave me, which prove ontirely satisfactory.

I shall therefore be glad if you will report here for duty on Monday morning next.

Your salary will be \$12, per week.

It is of course understood that consecond here for trial, as we can hardly judge as to your abilities until we have had some exteriors with you.

Yours truly,

Shy

Judge J. P. Bunn, Esq.

Tiffin.

Dear Sir:-

We have a letter from our Mr. Walker with relation to wiring.

Our object in sonding him to Tiffin was to teach a local plumber or gas fitter to be appointed by you to do outside wirework. The wole of the transactions with outside parties should be conducted by this plumber. Our Mr. Walker should simply supervise the plumbers work and teach him how to run the business. It would be a great mistake for your local Company to do the wiring "itself. This we find from extended experience. You should appoint some local man to do it, and have him deal with your consumers in the same manner that we are running our business in Shamokin. There the local gasfitter has charge of the wiring. and our Illuminating Company has nothing whatever to do with the matter. We sent them a man who taught the gasfitter the business, and it is with this object that Mr. Walker has been sent to Tiffin, Yory truly yours.

Thomas A. Edison Constn. Dopt.

December 7th.

W. I. Garrison, Esq.

Boar Sir:-

We have to-day got out the map of Auburn, and we will

write you to-morrow or Bonday in relation to the matter of the desirability of the town for electric lighting.

Very truly yours,

Thomas A. Edison Constn. Dopt.

December 7th.

H. H. Hoffman, Esq, Frost.

Cincinnati, Chic.

Dour Sir:-

We have your rayor of the 5th. inst., and in reply ber to state that we will jost you of any delay in the work at Piqua, Tiffin or Middletonn. We do not anticipate any at present, except in the case in the dolay from a natter over which we had no control of and of which you are aware, as it is connected with the purchase of a lot at Piqua.

We have not received the executed contract of Figure, although we are going shead with the work. Will you please send this on. It was mailed to you some time back,

Yours truly,

Thomas 4. Edison Constn. Dept.

В

December 7th,

. .

H. W. Loonard, Eaq.

lawrence, Mass.

Dear Sart-

We have your favor of the 4th. inst.

You must arrange with his Androws as to your going to this. its has full charge of our clostright staff and the dispo-

sition of the services of the delabors of base. We have written him saying that you would like to go to mile.

you truly you's,

Thomas A. Dison Constr. Dopt.

...

disen Constr

Honry C. Hc. Cormick, Esq. Prest.

Williamsport. Penna.

Doar Sir:-

bey to state that the exhibite you refer to, meanly, the may and outlinate, form part of our contract. It must, however, be understood that we undertake to run the lines in the places indicated, provided we are able to get the promat from the route. Our estated does not cover any payment for this right, and should we be unable to get past any particular point, we shall look to your climpany to make the necessary arrangements to enable us to do so.

In sonding our contract ploase give us a note confirming

You are right in understanding that we will run the station for thirty days after it is started.

Very truly yours,

Thomas A. Edison Constn. Dept.

E

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•

Messrs, Powers & Weightman,

City.

Doar Sirs;-

The sample of sulphate of zine, which you gave us, tested very well indued, except that there are traces of iron in it. Will you please quote us a price for this article and also sulphate of zine free from iron, the quotation to be based on order or half a ton, done up in 25 lb. tin cases. Please send us a sample of sulphate of zine free from iron. If we give you orders we would expect to receive the sulphate of zine subject to its boing tested.

fours truly,

Thomas A. Edison Constn. Dopt.

В

8



December 7th.

W. D. Rich, Esq.

Bellefonto, Penna

Doar Sir:-

Your numerous telegrams, including the long one from Pique, have come to hand.

of course all we could do was to judice the state of the work by the telegram we get here, and which we promptly repeated to you. If what you say is so, I would advise you to gom for Kr Markle and the other gentlemen for sonding such an errondous telegram of this kind.

We are still, however, of the impression that you will find that you are unable to handle so much work without a little better assistance than you now have, as we have never understood that you men could go out and start work without your being present to give them proliminary instructions. Of course we may be in error about this matter, and we are interested to see how long it will take to put up the present stations and forms correct conclusions in relation to how our work should be run. I presume if your system fails you will have no objection to trying ours? We are now standing off to see what will be the result. Of course it is our with that you should be able to run the thing according to your present methods, and if you are able to do so we shall be

òr

becember 7th.

Paul D. Dyer, Esq

Post Office

Galveston, Texas,

Door Sir:-

Door Sir:

If you work like a rase-horse, and get through the towns you now have to canvass South before Christmas, we will give you a "picnic" after Christmas in the shape of a district in New York to canvass. It will be a kind of a vacation to you.

ra trul/,

sessbor 7th.

W. S. Andrews, Esq.

Fall River, Hass.

moar Sar

We shall have one of the pressure indicators got up

by John Ott sent to you immediately Bergmann turns it out.

Er. Edison will not allow me to send the model away.

Vory truly yours,

Thomas A. Edison Constn. Dept.

l:y

L# 1

Docember 7th.

W. S. Androws, Esq.

Fall River, Mass.

Doar Sirt-

We return you herewith sketch of your clutch which you propose to use at Jawrence. We have ordered bergmann to no ahead and make the box, leaving you to take care of the clutch part of the business.

Very truly yours,

Thomas A. Edison Constn. Dept.

.

8 J

Enclosure.

December 7th.

Edmund Davis, Eso.

(a) Washington Street.

Providence, R. I

Dour Sir:-

We have your favor of the 5th, inst. If you will "send proof of the sketch shack you propose issuing so shall have no objection to your using it, providing so approve of it.

Very truly yours,

Zak

December 7th.

I. C. Walker, Esq.

care Judge Bann,

Tiffin, Ohio

Dear Sir:-

We have your letter of the 4th, December,

Your duty at fiffin is to take in hand the local flumber and his men and teach them how to do our wirework. This you should be able to do without any further assistance from New York. We were able to follow this course at Shamokin and we are able to do it at Tiffin. In fact it is imperative that this should be done, otherwise our expenses will be very heavy in sending men from here and having them do the wiring in Tiffin. The wiring also should not be done for our account. The plumber should be appointed by Judge Nunn, and any material they use we will bill to them if you will notify us when you deliver it ever to them.

We have already sent you the new calculations for inside wiring and will send a table for calculating the three wires services as seen as possible.

Use the time shorts of the Isolated Company and send us a specimen of any suggestions you may wish to make and we will have shorts got up for our construction Department.

The business anyway should not be conducted by you, but

it should be conducted by the local plumber, under your supervision and direction.

I have ordered the material you speak of and will forward as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

1883-12-10

Battery, Storage

December 10th.

3

G. W. Drewko, Esq.

Clinton, E. Feliciana, F. Ja.

Door Sir:-

Referring to your favor of the 24th. Movember, I would state that your suggestion in a practicable one. An induction coil through a spark of half an inch with two colls or battery, the whole set up in portable form and having two Brishes of wire, would do the work. I have no time at all to experiment on the matter, as my business occupies the whole of my attention,

Very truly yours,

.

Docomber 10th.

3

Francis R. Upton, Esq.

East Nowark, N.J

Doar Sir:-

Jondon, W. C. England, a statement of the Jamp Company's affairs up to the endoof November. I desire this so that I can explain intelligently to Mr. Batchelor the exact standing of the Jamp Co.

I have a letter free him this morning in which he auks no to do this.

Yery truly yours,

SI

Dynamos

Docember 10th. 3

7. J. Jonks, Esq.

Door Sir:-

Brockton, Hass.

To have your favor of the ith inst.

As soon as our ompineers have rigored on the shotch you sent us, we will write you definitely as to what we can do in relation to tree small dynamis. We have them remay to shap, but there is no object in sending them to you until we know exactly how we can place these.

Very truly yours, Thomas A. Edison Constn. Dept.

Βv

S. D

December 10th.

W. J. Garrison, Esq. Troas.-

Poston, Pass.

Pour Sir;-

We have your favor of the 7th. inst ..

We have written in such with relation to the Cornwall west Regulators, and as soon as we hear from him will result for sa name. At the present time of have no hill for them in our office.

with relation to J. W. Mailoy & Non's bill the letter you onclose is the first that we have heard of it. In fact we have no bills on our books for the Brockton central station.

As soon as we can get word from Mr. Rich in relation to those matters we will liquidate the claims. Heantime we must request that you do not send cheeks for same, as there may be some reason for their not being paid.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

By

Jelegraph - Gen,

December 10th.

S. B. Harvey & Thus, Hearsey,

505 Pierce Street,

. Phila. Ponna.

Doar Sirs:-

Referring to your favor of the 4th, inst., the best way to learn telegraphy is to be into a telegraph effice as a telegraph boy and pick it up in What way.

Yours truly,

33 Congress St.

Dotroit,

Doar Sirs;-

Wo have your fever of the 7th. inst., and your wishes in remard to estimates shall receive our attention.

Mr. Cooks will not be withdrawn from your torritory until ho gots through.

Very truly yours,

W. D. Rich, Esq.

Doar Sir;-

The Bellefonte people object to the

use of asbestes roofing. T presume you will settle this matter

Yours truly,

Thomas A. Kdison Constn. Dopt.

ν,

W. D. Rich; Ksq.

Dear Sir!

You may remember of my spealing to you about the boilers at lawrence. We have a letter from Mn lord in which he save:-

"I know that when we feed our boilers with cold water the steam is so damp it will not do much more than half duty, although the ironsure remains constant or nearly so."

I think Mr. Lord claims that the trouble is with the injector connections to the boiler. Will you please lot me know what you propose to do in the matter.

Yory truly yours,

Thomas A. Edison Constn. Dort.

Рy

1.0

W. D. Pich. Esq.

Door Sir:-

We onelose you herewith letter from Mr.

Carrison, together with bill and letter of J. W. Bulley & Son.
Will you please lot us know per return about the Corn-

wall Hout Repulators and d. Thailey & Son's bill, as if the claims are correct we want to pay them. It nots us into rather

Yours truly,

Thomas A. Rdison Constn. Dept.

Ву

bad odium to have matters stand over.

Enclosure,

Docombor 10th.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Door Sir;-

Referring to your favor of the 6th. inst., you will have one this have received information to the effect that our Superintendent has started the work at Piqua.

Vory truly yours,

Thomas A. Edison Constn. Dest.

A-0

W. J. Hammor, Esq.

Berlin, Gormany.

Door Sire-

Referring to your letter with date, I think if you will look up my patents you will find that one of them covers a patent for taking care of the irregularities in a gas machine.

DYNAMOS. The "IP machine is tested for 400 unperes." 300 lights means nothing, suppose they were 50 candle lights. Plouse talk empores. We gave Butchelor the currying power in ampores. Since you received the model "N", we have reduced the resistance of the armature by using larger wire, thus easing it up so that it runs cool with 400 amperes on it. You people word in such a hurry to receive your model, that we were compelled to ship you the first machine we had, and because there was considorable delay in making the seigment you seem to shinkhe impression that we were not paying attention to you. If you had left us to ship you what we considered our boot machine, we should not have shipped the 400 ampere machine, but would have waited at least a month after the date that we made the shipment.

We can send models of a hale horse power and one smaller

size motor for sowing machines.

With relation to the lamp factory, I note what you state as to the desirability of having your lamp factory in Germany itself. I will send you the apparatus that you may order, but it will be muite impossible for us to supply your Company with any men. Our staff has already been reduced too much by sending out our assistants to Europe, and we must really look to ourselves in relation to this matter. We have now reduced the price of the ten candle lamps to 50 cents. As we make more of them we shall probably reduce the price further, but the shrinkage in the manufacture of the lamp is probably greater than in any other. We do not use any "F" lamps at all to speak of in this country.

I will have curies of estimates and plans sent forward toy uo in the course of a wask or so. You will be able to get information in relation to these matters from Mr. Insull, who leaves here on Tuesday.

We do not propose puting the three wire tubes in the down town district, as the whole of that district is now covered with the two wire tubes. We are, however, arranging to build another station uptown, which will be run on the three wire system.

101 our small town plants, whether underground or overhead, are

Ta. & D

3

Colonol C. Coddard,

My Hoar Goddard:-

I have your memorandum of the 8th, inst.

I was under the impression that you were still out of town, as the estimate has been waiting here semetime.

The mere fact of my boing away will not provent your getting estimates made out here.

Yate will communicate with you as to the dstimate.

Many thanks for your kind wishes as to my trip.

If there is anything that I can do for yourover there, if you will

address me care of the Vestern Electric Co., 38 Moorgate Street,
Tondon, E. C. England, I will have ground pleasure in attending to

Very truly yours,

S. g

Colonel G. Goddard,

My Doar Colonel:-

I got your lotter writton Saturday this morning, and am sorry that I could not see you prior to your starting for Moston. I am now just in receipt of your latter of Sunday night.

By Address in Iondon is, 21 Surton Crescent, Lendon, 7. C. England.

I shall be very happy to attend to any matters for you there. Flease drop me a line stating what you want me to do as early as possible, as my stay in london depends entirely upon how long I shall be kept by cortain butiness I have be attend to.

My cublo address is thould be necessary for me to use the wire.

Thanking you for your vory lind wishes, and hoping that you will have a pleasant christmas, boliove me,

Very singerely yours,

3

Secretary,

Edison Electric Jaght Co.

74 Coleman Street,

london, E. C. England.

Donr Sir:-

Then to advise you that my Frivate Secretary, Mr. S.

Insull, will arrive in loaden about the 20th, inst., and will in
all probability be in Europe about a month.

While he is there I trust that he will be able to make arrangements with you for the settlement of my patent account, and also hope that he will be able to getan revision of my contract with you in relation to patents, as in its present form there are many objections to it. He will explain to you when he calls on you what I desire to achieve in this connection.

Very truly yours,

Charles Batchelor, Esq.

Paris. France.

By Doar Datch:-

Yours of the 25th, ulto, came to hand this morning.

I will have all the data as to accounts with me when I arrive in Paris. I have got a variety of matters that I sant to go into with you there, but the main thing is to show you how necessary it is, alike for our business and your own interests, to come back here. Enowing your wishes in the matter I do not think you will mand my persuasion.

Write me to Jondon, saying whether you will be in Paris right along from about 27th, December. I hope to got there by New Year's anyway.

My Jondon address is Damuel Insull, Jr., 21 Burton Croscent, Jondon, W. C. England.

Very truly yours,

•

Compagnie Continentale Edison,

Paris, Franco.

Door Sirs;-

Referring to your correspondence as to the prices I have quoted for lamps and the fact of my having entered into competition with your factory as stated by you, I ber to advise you that my Private Secretary, Mr. Samuel Insull, will be in Faris ourly in January and will call on you with relation to the matter, and I trust will be able to mic some arrangement satisfactory quality to you and myself.

Vary truly yours,

J.a. 8

W. S. Andrews, Esq.

Fall River, Hass

Doar Sir:-

Referring to your favor of the 0th, inst., I informed Nr. Oakley that we should no longer require his services, as I understood from you that he was hardly good enough for our work,

Yours truly,

Thomas A. Edison Constn. Dept.

13:

SI

W. S. Andrews, Esq.

Fall Rivor, Mass

Dear Sirt-

Referring to your favor of the 7th. 18st., we have quasted a stock of stru ordered, which of course must be used up before we start at with the straight reds which you suggest for interior us in stations. The Ansonia topic sould make the ware for us in twenty foot lengths as they do for the Tube too, but we would profer ordering it in twelve foot lengths, as it can be handled in Stigmont much easier in the latter lengths.

Very traly, yours, Thomas A. Edison Constn. Dopt.

80

E. H. Jord, Esq. Treas.

Jawrence, Mass Boar Sir:-

We have your favor of the oth, inst., and in reply beg to state that the interpretation we gut upon our contract with you is exactly what we have always understood it to mean.

We do not understand what you mean as to the engine pullays. No you mean the pullays on the b¹2 x 10 or the 14 x 13 engines as being all right, if we send you 10 inch pullays on the dynamos, that is do you want 10 inch pullays on the spare dynamos or on the main machines.

With relation to the use of 12 inch bolts, we have very great respect for the opinion of Mr. Sims, but we must confess that we prefer that our engineers should decide all questions in relation to the engineering of our stations. When we think that our office talent is deficient, we may possibly call on Mr. Sims for his opinion in the matter.

We have written to an Rich in relation to your boilers.

He is now in Senseylvania. Of curre if there is any trouble,

for which we are to blame, we will fix it.

Thomas A. Edison Constn. Delt.

£, c

Бу

Dec. IIth

3

Tr. W. Taylor & Co.

Willow Springs, Jackson, Co.

Oregon.

Dear Sirs:-

Roplying to your lotter of the 24th, inst. I bog to say that Professor Price, of Samperancisco, is in my opinion the most trustworthy assayer in the United States, and I would suggest your communicating with him.

Very Truly Yours,

hur Jé

. 33

Hr. W. S. Androws,

Gon. Electrical Engineer.

Box 565 Fall River.

Doar Sir:-

We have your letter dated at Lawrence of the 7th, inst. in relation telephone Mr. Leonard to Ohio.

In reply we beg to say that the management of the Ricctrical Station is entirely in your hands. And you must dispose of your mon as you think bost.

In regard to the number of Ferders in the Williamsport In stallation, we had a new canvass made of this place as the one had in the Office was an old one made by the Light Co. We are now having a new Electrical Det emination prepared, and will advise you to morrow by wire as to the number of feeders. It is that the Act that hard installation.

Vory Truly Yours,

Thomas A. Edison, Construction Dept.

Doc. IIth.

W. S. Andrews, Esq.

Gon. Electrical Engineer,

Box 565 pall River.

Dear Sir:-

In reference to your letter of the 9th, inst. we do not think it ut all likely that Piqua and Middletown will be ready as soon/as fiften is finished. At Middletown they have not yet section/the let for Central Station purposes. And the work on Piqua las only just been started, either Bellefont, or Mt. Garpel will follow, after Tiffen Piqua may come in about the same time as Azzelton, but Middletown will certainly be the last on the list.

In relation to Sponcor plause note the attached letter, whi better start him to work at a suary of the Dollars per work, we to allow his railway fares.

Please return Mr. Spencer's letter for perusal.

Vory Truly Yours,

Thomas A. Edison, Construction Dop't,

22

Dec. IIth

W. S. Andrews, Esq.

Gen. Electrical Engineer,

Box 565 Pall River.

Door Sir:-

In rought to books of questions and answers, we do not in each case take receipts for them. Communt Doubleday & Joonard, each and a sot, but we cannot at the moment remember wheather any of them were returned or not. In any event it woul: be as well to isono a contion.

a contion. The while I for are four.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

Docombor 11th. 1883.

Gustav Soldan, Esq. Supt.

104 Coerck Stroot, City

Doar Sir:-

Referring to the attached letter from Mr. Dwelloy, in which he complains of the workmanship on the second "H" dyname at the Plint Hills, please read same and let me have your answer at the earliest possible moment.

Yours' truly,

The Edison Hachine Works,

Ву

Liteam Engines

Doc. 11th,

Hr. Frank S. Marr, Troas.

Edison Electric Illuminating Co.

Sunbury, Penn.

Doar Sir:-

Hr Rdison has requested me to write you, suggesting that you make mire that your enter supply for Boiler will not from: up this winter. For Edison states that it is his opinion it will be affected by frost. Have the said mains been laid yet?

Vory Truly Yours,

Thomas A. Edison, Construction Dopt.

Ву

acey

E. H. lord, Esq. Treas.

Lawrence, Mass.

Doar Sir:-

We have your letter of the 7th, inst, addressed to Mr. Insull, in which you state that we are unbusinesslike for delaying your meters.

We would beg to remind you that this material is not made by un and therefore we only indirectly control its production. Upon the receipt of your latter we impodiately wrote to Messrs. Permann & Co. consuring them for the delay to your material and the inconvenience they put us to thereby, and in replying to us they admit the fault, and are burrying your orders to the product

There were shipped to you to-day, 10 extra bettles,
10 extra pairs zines and 10 sets of rubber fixtures each for the
12 light, 25 light, 50 light and 100 light meters, also five 12
light meters complete and fifteen in light meters complete, and as
we have stated above the balance of your order is receiving onegotic attention.

The cost of the meters which you now have on hand at Javrence, namely, 25 for 8 lights, 25 for 12 lights, 10 for 25 lights, 10 for 50 lights and 5 for 100 lights, together with the extra bottles, plates, zincs and rubber parts, amounts to about 3575., and in order to prove to you thatwe are not short on our work we would refer you to same, which calls for meters of different capacities from the above, yet amounts to only \$320. The changes in the size of the meters were made of course at your request.

In view of the above facts we should be glad to receive from you your check for \$5,000., as requested some few days ago.

There is sufficient margin left after paying us this money to enable you to discuss safely any matters wherein you think we have failed to live up to our contract.

The Jawrence installation has been pocuniarily disastrous to us, and we have urgent use for the money which we now ask you to send, and we trust that we can rely upon its receipt within the next few days.

Yory truly yours,

Jag.

meters

Doc. IIth.

Mr. H. Ward Loonard.

care Edison Electric Illuminating Co.

Lawrence, Hass.

Doar Sir:

In relation to form of Neter Blank which you prepared soke little time ago, will you be kind enough to send me a copy. I believe you sent me a specimen, but it has been mislaid in the effice hore.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

Βv

007

W. S. Androws, Esq.

Box 565 pall River,

Door Sir:-

Replying to your letter of the 9th, inst. in which you asked us to got patgmann & Co. to make a small cheap four point switch, similar to our Book House changing switch. Will you please send us a diagram of what you want drawn to acale.

Very Truly Yours,

Thomas A. Edison, Construction Dop't,

3

L. Woinschonk, Esq.

50 Wost 24th. Street, City.

Doar Sir:-

In reply to your note of the 10th. December, I regular vory much not having been able to keep the emeagement I and with you, but I was called away.

I will moot you on Wodnosday (to-morrow) at ton o'clock.

Dar

Dec. IIth,

Ceo. H. Bliss, Esq. Gen, Sup't,

Western Edison Light Co. .

52 Wabash Ave. Chicago, Ill.

Dear Sir:

We have your letter of the 8th, inst. in regard to Lima. We will be ready for the parties just as soon as they are propared for business.

Vory Truly Yours,

Thomas A. Edison, Construction Co.

...

Q0.

W. H. Welley, Jr. Esc. Treas.

Fall River, Mass.

Dear Sir:-

We learned this morning that you sent an order to the Edison Electric light Company for 300 sixteen candle power lamps for use in connection with the Pall River contral station.

we would beg to call your attention to the fact that the Fall River installation is for ten sandle power lamps.

Fall River being a coal gas town, we supply lamps of this power, and they, in practice, are always run at twelve candles, which will give more light than any five foot gas burner in your city.

We would strongly advise your recalling this order, or possibly there has been a mistake made and sixteen candle power lamps ordered instead of ken.

Very truly yours,
Thomas A. Edison Constn. Dept.

arey

Doc. IIth

W. S. Androws, Esq.

Gen. Electrical Engineer.

Box 5G5 Fall River.

Dear Sir:-

Roplying to your letter of the Oth, inst. in regard to carried, don't you think it would be a good idea to simply state inclanity to him, that Mt. Carmel, Hazolton and other places are now being started, and that he could do well at those different buints! "on his own boot."

Vory Truly Yours,

Thomas A. Edison, Construction Dep't,

Nessra, Markle & Wall,

33 Congress Street, W,

Dotroit, Hich.

Dear Sirs:-

In further reply to your favor of the 7th. inst., we her to say that we have the map of Grand Haven prepared and will send it to you to-morrow to obtain option on lots for central station purposes. After receiving information in regard to lots, and choosing therefrom the one best suited to our business, it is only a matter of a few days to supply an estimate. We should therefore be glad to know if you would like us to send you the estimate for Grand Haven, which you could hold yourself until propared to present it to the local people, or if you would prefer us allowing the matter to remain in aboyance in this office until we receive instructions from you to go should with the work?

Very truly yours,

Thomas A. Edison Constn. Bept.

..

D. M. Osborn, Esq.

Auburn, N. Y.

Dear Sir:-

We send you under separate cover, a Blue Print of Auburn. Eact in addition to supplying us with information in accord ance with the att ched form, we wish you would be kind enough to look over the matrict we propose wiring, and ascertain if there are any obstructions which would provent our taking the course we propose. We propo so laying under-ground mains in this place, and their course it indicated by a red line.

Very Truly Yours,

Thomas A. Edison, Construction Dop't,

Documber 11th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

To have your letter of the with, inst. in reference to
the new form of special report which we went you to have filled
out for a number of towns. We do not wish you to send a man around
specially to obtain this information, but we presumed that you were
in communication with local parties who could furnish the information we required. As you will notice the form is much more
complete than the old one which we used.

If you can obtain the data for us, as stated above,
we should be glad to have it, otherwise we do not wish you to go
to any expense in order to get it.

We return herewith Mr. Dyor's report on Jima as requested.

Yory truly yours,

Thomas A. Edison Constn. Dort.

y Paro

care Ohio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. 0.

oner Sir:-

Roplying to your letter of the 6th, inst. we beg to say that we cannot send the convessor to Pottsville as seen as the canvass of Circleville if completed. This will probaly be in a weeks time.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

Dec. IIth

er P. E. Shaw,

care Chio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. 0.

Doar Sir:

We have your letter of the 6th, inst. including the communication from Hr Bighter as to the progress at Ht. Carmel,
which we boy to return as equested. We are getting ahead at Mt.
Carmel just as fast as we possibly can. But of course we cannot
expect the local people there to see the difference between the
rection of a house, and the installation of an Electric Light
Plant. It will not be very long before these people are in
a bottop humor.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

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H Ward Loonard, Esq.

l'awrence, Mass.

Doar Sir:-

se have your lotter of the 7th, inst. in which you ask for a copy of the book of questions a Angwors.

We would beg to remind you that Mr. Edison gave you a copy of this book when he was at Brockton.

The blue book containing table of conductors you can obtain from Mr. Andrews,

Yours truly,

Thomas A. Edison Constn. Dept.

y

ROY.

3

Sir John Jubboch,

15 Jombard Street.

Jondon, E. C. England.

My Doar Sir John:-

This will introduce to you my Privato Secretary
for Samuel Small Small
and business representative for Secretary
there. Unlist he is only your side of the Atlantic he will have
various business matters to settle with the Edison Fleetric light
Company of london.

Any assistance that you can render him will be greatly approximated by.

Yours vory sincoroly,

Tax

December 11th

Frank S. Marr, Esq. Treas.

Sunbury, Fonna.

Dear Sir:-

laid you?

that you make sure that your water supply for boiler will not freezo up this Winter. Mr. Reliefon states that it is his opinion it will be effected by frost. Have the street water mains been

Very truly yours

8 3

Doc. IIth

Mr. Chas. P. Lyon

Circleville, Ohio.

Dear Sir:-

We have your letter of the 7th, inst. The canvas: of Wolloboro came to shad to day.

In regard to whon you should commence canvassing a town, you should always start work at dusk, just as the people commence lighting.

Vory Truly Yours,

Thomas A. Edison, Construction Dopt.

moc. IIth.

John Jucas , Eaq .

11

Dear Sir:-

Boolying to your latter of the 4th, inst. in relation to running a machine for bereing coal by Electricty, I beg to use that the electrical part is hardly practicable. Albiess wires run through the drifts to furnish power and light, from a Dynamo at the Misting Works.

Yory Truly Yours,

3,01

Straight Line Engine Co.

Cor. nedder & Payette Sts.

Syracuse, N. Y.

We have you letter of the 6th, inst. in relation tola Pattern waker. We regret to say that we have not a man in our employ at the moment whom we could send. But are in communcation with a first class pattern maker, whose services we expect to secure. On this subject will write you more definately in a day

> Very Truly Yours, Edison Machine Works.

Gen. Alson Stager,

curo Mc. Gionis & Pouring.

30 Broad St. City.

loar Sir:-

The following is a pist of towns in Southern Illinois which I would propose to canyage and make estimates for for your Company. Planse advise as if we wall go where?

Alton, population 8,578,

Bollville 10,088,

Champaign, 5,100,

Springfield, " 19,746,

Decatur, " 5,548,

Jacksonvillo, 10,927.

Lincoln, 5/475.

Litchfield. 4,330

Paris. 4.370

Quiney, 27,27/3.

Very trally yours,

20%

Charles T. White, Esq.

103 Liberty Street, City.

Dear Sir:-

Have you on hand any sulphate of mine from from and would you be kind enough to send us a sample? If the material is satisfactory, we would like to give you an order for a quantity of it.

Very truly yours, Thomas A. Edison Consta. Dopt.

By agy

December 12th.

W. S. Andrews, Maq.

Fall River, Eass.

Door Sir:-

de have your letter of the 6th, inst. requesting us to order four more plus saltenes for bank of test lamps, which we have done.

In repard to pulleys on the "S" machine, this dyname is $\frac{2a}{n}$ run in connection with a 0.2×12 engine, which must have a 10° pulley. If we use 12° pulleys on the "S" machine, the Armington a Sims people would have to put a 37° pulley on their 9.2×12 engine, and as the 47° is their standard pulley, we do not wish to make a change.

Yory truly yours,

Thomas A. Edison Constn. Dept.

December 12th. S

A. B. Chandlor, Esq. Prest.

Fullor Electric light Go.

Union Square, City.

Done Siri-

Di you ascortain about Smith's wagos? Floaso givo me

. Yory truly yours,

Jun

Dec. 12th,

Prank S. Marr, Esq. Tres.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

We beg to enclose herewith statement showing the amount due us at the present time by the Sunbury, Co. It is chiefly made up by the balance due on contract, the other items are for wire, and some small fixtures, which we send at your request.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't,

y all

Surbury

December 13th.

Frank S. Marr, Coq. Treas.

Sumbury, Ponnal

Doar Sir:-

In relation to your latter of the sth. inst., in which you state that the belt you are using on one of the sunbary engines shows signe of siving and should be replaced, and that it was only jut in service temperarily, we beg to say that we cannot understand why the belt should have given out so soon, nor have we any recollection of it having been placed there with the understanding that it was to be reserved and another one substituted.

Our Superintendent, so Rich, states that the belt was respliced at Sunbary and that the work was will done. It is exactly the sump article that we are using in commection with other installations, which latter are giving per feet substraction.

Very truly yours,

Thomas A. Edison Constn. Dept.

es aog

December 12th.

Col. C. Goddard,

care Time Telepraph Co.

Temple Court, City.

Dear Sir:-

We bed to enclose herewith our estimate No.07, A for the erection of a Central Station Edison Ricctric Jirht Plant at San Jose de Guatamals of 400 large especity of 1s candle power each, and amounting to \$23,445.01

We also send you map of San Jose de Chatamala with the

Vory truly yours,

Thomas A. Edison Constn. Dept.

В

avy

Enclosures

December 12th.

Charles T. Hughes, Esq.

Poughkoopsio, N.

Door Sir:-

We beg to enclose herewith our estimates Nes. 77, 77, A and 77, B, for the erection of an Edison Electric light Control Station Flant at Pouhgkeepsie, New York, and assuming to \$ \$23,040.40-\$40,607.42 and \$31,765,03, together with their attended maps.

In relation to action to be will also that the district we propose wiring, in the event of his estimate being accepted, covers 2,648 lights. Estimate 77,8 for 1,630 lights. By referring to the maps accompanying these estimates you will find the course of the street installation marked thereon. It will therefore be unnecessary for us to go into a lengthy companion, as it only remains for you to ghoose the one you consider beat mitted for the purpose.

In submitting those estimates it is of course understood that the local Company obtain all necessary permits for us to open strongs and lay our tubes, in accordance with whichever one they may accept, and we will not in any way be responsible for any failure to obtain those, which might provent our laying mains, as

shown on the map.

Trusting these will meet your requirements, we are,

Very truly yours,

Thomas A. Edison Constn. Dept.

By

Enclosures.

Lag

Congress of

agi

December 12th.

John Boskin, Esq.

6 ledger Building,

Phila, Penna.

Dear Sir:-

We have your letter of the 11th, inst., and in reply beg to say that if the speeds of both dynames do not vary much from what they are set up at and the resistance boxes are proportioned so that the load will divide according to the capacity, they will run perfectly together. We run then this way in our central station plants.

Very truly yours,

70 l

9

Charles T. Hughes, Esq.

Morgan House.

Foughloomsic, M.Y

Boar Sire-

We beg to enclose herowith plan of the central station we propose creeting at Youghloopaie, also estimate of daily running expenses and statement of probable profits on a \$40,000. capitalization, which latter shows an excellent percent for dividends.

We also enclose the remaining estimate for this plant,

Thomas A. Kdison Constn. Dept.

121

apr

Enclosures

December 12th.

0

Mossrs, Kont & Auerbach,

3 Broad Street, Dity.

Gentlemen:-

I understand the case of Smith vs. Edison is on the Calendar and will be soon reached for trial. I desire to associate with you in the suit En J. C. Tealinson. You will be good enough to allow him to examine all the papers, and consult with him as to the conduct, management and trial of the suit.

Vory truly yours,

20

December 13th.

W. S. Androws, Esq.

. F. O. Box 565.

Fall River, hass.

Dear Sir:-

We have your letter of the 11th, inst. in reference to the bolts for driving the two "Y" dynamos being too long.

The reason that those belts are of improper size is that

"the dyname has been set 11 34 too near the engine, and not in "accordance with our plans, which say 10' from center to center."

Would it not be possible to move those dynamos back 11349

If not, we would prefer having the belts respliced.

Yours truly,

Thomas A. Edison Constn. Dopt

Leen

December 13th.

E, H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

To have your telegram of yesterday instructing us to

In this connection we been to say that we always use a limit when an U 2 x 10 engine is driving this machine. At the Pourl Street station in this city we have run a 14 2 x 13 engine at 350 revolutions for seventeen consecutive days with perfectly satisfactory results.

The W 2 x 10 engine at lawrence would have to be run at shout 325, if you use 12° pulleys, and we do not consider that 325 revolutions per minute is too light a speed for this small engine, when we have obtained such results as above stated from the 12° x 13°. Purthersore, if you use 10° pulleys you will have trouble by the belt aliphing, inassuch as it does not form as moud a contact with that size of fulley as it does not form as form you will desire to use 10° pulleys we shall be glad to send them on immediately you sayse us, but we consider it withsable to mention the above facts before filling your order.

Thomas A. Edison Constn. Dopt.

...

Edison Machine Works

104 Goerck, St. City.

Door Sir:-

Roplying to your letter of the ligh, inst. wherein you state that it would be advisable to have a complete set of drawings for the Straight Line Engine. We beg to say that we have a comploto set made, and the letter sent you stated that they were making the patterns.

Yorym Truly Yours,

Edison Machine Works.

December 13th.

Porsonal.

W. S. Androws, Esc.

Fall River, Hass

Doar Sir:-

Can you give us any idea as to when the Fall River station will be ready to start? We are nowing that there is a quantity of electrical material which has not yet gone forward, but if you can make a start and introduce those fixtures afterwards it will be of yory great service to us financially.

We presume you have heard nothing from he Rich as to when Tiffin will be ready for you men. We have to-night asked him this question, and will adrise you upon receipt of his reply.

Thomas A. Edison Constn. Dept.

Single Cons

3

Documber 13th.

W. C. Smith, Esq.

542 Pearl Street, City

Dear Sir:-

Could you possibly come to this office to have an interview with me semutime to-day. Not me know by bearer what time we I may expect you, in order that I may be in when you arrive.

Jary

3

W. S. Androws, Esq.

Box 565 pall River.

Mass.

Doar Sir:-

We know y ur letter of yosterdays date in regard to williamsport and newberg, we wired you on the 11th, inst.that there were 4 feeders at Howburg. And yosterday we sent you a telegram, stating that there were 5 feeders in the Williamsport Installation. Since sending the latter telegram, we are in receipt of a letter from the Williamsport Co. stating that they have not yot secured a lot, and asked our indulgence until we hear further from them. In view of this fact we wired you this morning, to do nothing to Williamsport material, whill you were advised further from this effice. We will send you the information you desire at the carliest possiable moment.

Very Truly Yours,

Thomas A. gdison, Constn. Dep't,

Ву

007

December 13th.

W. D. Rich, Esq.

Hazloton, Penna.

Doar Sir:-

Can you tell us when the Tiffin station will be ready To for our ejectrical staff to commence work on the inside wiring?
We would like to start them on this work at the earliest possible moment. Will you kindly send us a jetter stating exactly the condition of the advancement of the central stations at Mazleton, Mt. Carmed and Wellefonte.

Yours truly,

Thomas A. Edison Constn. Dept.

apr

December 13th.

W. D. Rich, Esq.

Hazleton, Fenna.

Doar Sirt-

tion, one marked "A" having been propared from the Setch you sont
us giving the details of your proposed arrangement, and the other
marked "A" is one which has been propared in this effice.

By referring to these plans you will see that both buildings are exactly the same size, and the the same capacity of plant is obtained without increasing the length of either building. Were we to adopt the plan which you sent us and put in the engine and boiler (upon which we have made a cross) it would be impossible for the engineer to attend to his engine and look after his steamy We have marked with the letter "A" on our plan the possitions of the boiler and engine which we now propose to install, and by reference to same you will see that it is a much more convenient arrangement than the one you suggest. The only difference it makes in the interior arrangement of the station is to reduce the length of the office from 13' to 11' 4". Mr. Andrews' brings his wires in at the skylight, and you will see that there is plenty or room for electrical apparatus along the walls of the building and away from the dynamos. We therefore think it desirable that you

should edopt this plan, and shall be glad to have any comments you may wish to make upon it.

Very truly yours,

Thomas A. Edison Constr. bDopt.

ву 3-9

Elicioparos.

Doc. 13th

3

W. D. Rich, Esq.

earn Daison Blactric Ill. Co.

Hagolton, Ponna.

Dear Sir

We have your letter of the Oth, inst. in regard to build plan of Middletown and Pique. We believe that this style of setting is to be used only where Mituminus Coal is burned, we note your objections to this setting however, and shall be glad to have your use your own judgment as to the way in which it should be done.

Very Truly Yours,

Thomas A. Edison, Constn. Dopt.

Ву

on, consti



Docember 13th.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the lith, inst in regard to the extension of the Tiffin plant, and during the past few days have received all your telegrams urging upon us the necessity of shipping the material at once.

Your ideas as to the arount of work necessitated by this extension are altogether too small. It will be impossible for us to obtain the copper under two weeks, and a view of this fact we have wired you that we cannot keep our non there, as we understand from our Superintendent that all the pule lines at Tiffin will be finished on Saturday next.

We have wired you to might that the cost of this extension will be \$3,760.17, and we beg to knelless herewith our estimate for performing the work and supplying the material. Upon its acceptance, we will immediately take active steps to make the desired addition to your flast.

yr Rich is altogethor mistaken when he states that it vill not increase the cost of fooders, who extendion necessitates a new feeder and consequently additional electrical appearatus in 2

the inside of the station

Very thaly yours,

Thomas A. Edison Consth. Dert.

12.

Enclosure

()

H. C. Bolknap, Esq. Treas.

High) and Wational Bank,

How Burgh, M.Y

carsir:-

We have your letter of the 12th, inst., asking us for a list of prices for which we will furnish tubing and wires for sorgice, and in reply we bek to seate that we will supply you with this material at cost price.

The way the Fall Haver and lawrence Company did was simply to give us an open order to supply them with as many Services as were necessary, and we billed the material to them at the rate as stated above.

If you will give us a similar order, we shall be very glad to furnish you with whatever services you require. They containly should be jut in at once, as it will save a great deal of labor in the future, when you might justify have to contend with heavy frost.

Yours truly,

Thomas A. Edison Constn. Dopt

By &

December 13th. 3

Mossrs. Rergmann & Co.

202 Avenue B, City

Doar Sirs:-

In relation to the attached letter from measure. Forever t weighten, do you not thin it would be a paying business for you to carry a stock of say 1,000 lbs. of this material, for the jurpose of supplying our numerous central stations with what they required. They would consume considerable in the course of a year, and innamed as you could purchase it for fifteen contral pound and soll it for twenty five cents a paying, the enterprise yould remit good profit. Let us know if you will do this.

Yours truly,

Thomas A. Edison Constn. Dopt.

· acos

Enclosuro.

December 13th. 3

Paul D. Dyer, Esq.

Tremont House,

Galvoston, Toxas

Door Sir:-

We have your interesting letter of the with, inst., and in relation to your obtaining of tions on lots we think it would be a good idea for you to get exact sixes and prices of as many lots near the center of each term as you can.

In regard to the amount y a are paying for your expenses at the present time, if you will lot us like how much it is in encours of the allowance made you, we shall be very glad to credit your account with the difference.

You have apparently missed sending us a portion of your letter or clse you have forgotten to sign it.

Have you over received the new form of special report,

Mn Insull sailed for Kuropo yesterday to be gone until the latter and of January. We Fromune you received his latter talling you to go home for christmas.

Yours truly,

Thomas A. Edison Constn. Dopt.

By au

Docombor 13th

3

S. B. Eaton, Esq. Prest.

Edison Electric Light Co.

65 Fifth Avenue, City.

Doar Sir:-

I have the pleasure behand you herewith account amounting to \$7,709.74, Being amount one my Construction Department, also account amounting to \$1,112.00 for sundry amounts paid by me on the Light Company's account.

In addition to the above there is the amount expended by me on electric railroad experiments, for which you alroady have my account, assuinting to 336,551 26, and also about 325,000 expended by me at the Edison Machine works in improving your dynamo machines, with the result of developing the cost on same of the types of dynamos about twenty five per cent, and increasing the number of lights obtained free the period machines about forty per cent.

with relation to my relified experiments, income as the inventions in connection therewith have been transferred to the Electric Hailrond Company, I presume my accounts in relation to this matter must stand every although by stating this I wish'it to be clearly understood that I expected that I have a valid claim

against the Edison Electric light Company for the amount I have

As to the cost of the dynamo experiments, in consideration of the kindness shown by the light Company in carrying my
stock for me, it is not my intention to ask them to reimburse me to
the amount referred to, more especially as the rendering of account
of this character is usually the cause of great irritation.

In this connection I may mention that I can now experimenting with
the object of increasing the capacity of the central station dynamo
but inacmuch as my means are limited I cannot conduct the experiments on any such scale as the importance of the matter would
warrant, and I would urge upon your birectors the necessity of
placing at my disposal \$30,000. For this purpose. Of course it is
very difficult to estimate the exact cost of such experimentation,
and I mention this amount as [2] limit and not as giving an indication that the experiments would cost as much.

I shall be glad if you will arrange to pay the small necount due (\$1,116,60), and my Construction Department account (\$7,700,74) at an early date, inhammen as the latter must of necessity receive additions or deductions from month to month.

I would suggest that the payment of \$5,000, on account

be made immediately,

very truly yours,

Ja.E.

Enclosuros.

December 13th,1883.

F. S. Hastings, Esq. Treus.

Dear Sir:-

In relation to the attached note, under date of November 19th, for %3,000., payable to days from date to our order, please make some payable to the order of Yhomas A. Edison, and debut our account with the amount.

Very truly yours, The Edison Hacking Works

. .

883-12-13

lac. 13th,

J. F. Bunn, Esq. J. P.

Tiffen, Ohio.

Dear Sir:-

We have your letter of the 10th, inst. in reference to wiring. We are of the opinion that you have made a great mistake by pursuing the course suggested by Mr. Stuart. Our experience has been, that it is a fatal error for the local Company to have anything whatever to do with the wiring.

In regard to lighting blocks, 44, 40, 49, and 50, we to day are in receipt of a tologram from Mr. Stuart, asking us to light blocks, 44, 46, 47, 40, but he makes no mention of block 50, we'll send to night an optimate for this work, in accordance with Mr. Stuart, telegram and if the sum is satisfactory we will order the material and have the work commenced without delay. You must understand that it is a very unsatisfactory thing to do work of this kind, without having an estimate accepted in the regular way. We have no doubt whatever but that our bills would be satisfactory, and accepted when presented to you, if we were to do the work upon that bases of understanding. But in our much as it is not the regular way of doing business.

we prefer to submit an estimate, and upon its accoptance we will proceed to make the desired addition to your plant.

Vory Truly Yours,
Thomas A. Edison, Constn., Dep't,

Thomas K. Indison

зу (

December 13th.

Spencer Borden, Esq.

P. O. Box 3311,

Boston. Mass

Doar Sir:-

We beg to achowlodge reposit of your favor of the 11th.

inst., and in reply would call your fatisation to the fact that

when you were in kew York last Wordester was one of the towns of

which you made a memorandum that you were to attend to in regard

to obtaining options on lots. In order that it maynot again

oscape your memory, we send you by this mail another chart of this

town marked with a circle, within thich it is desirable to obtain

those options. Upon receipt of this information, we will prepare

and submit estimatos.

Owing to the proces of with, and also on account of having to re-model the gaverhill estimate, we have not up to this writing been able to dispatch it, but if will be forwarded to you to-morrow man Portland we will send you early next week.

Yours truly,

Thomas A. Edison Constn. Dopt.

Dog -138th.

W. H. Winant, Esq.

Care Armour Bros. Banking

Kansas City. No.

Dear Sir:-

In further reply to your latter of the 4th, inst., we beg to say that we will require a lot 50 x100, for Control Station purposes. As the ground within the red circle on map anot you is so valuable, we would suggest as the next best point, to obtain a lot the northern portion, of blocks 48, and 49, and blocks 9, 7, 50, and 314

us in reference to dunning our pole lines, and we send you this morning another man, which is marked in accordance with your letter and we shall be glid to know if the same meets with your approvel. We also seed you another man, which has been marked with lines showing the proposed course of underground conductors, in case this class of conductor is considered more satisfactory than over head wires. We would like you to examine this chart, and give us information as to whether parallel could be obtained for opening up the streets upon which we propose to run. In connection with the above, we should be glid to hear from you as

time we remain

0.c. 1385h

Jun Druly Couch Dopt.

denmas City: No.

our Sir:-

In curtifying apply to your latter of the stle inches on come to may the may that we will empty a lot so when, for fourthal starting purposes. As the ground within the red circle on the respective to the continuation of the points of the fourthern portion, of blocks thank of the the portions portion, of blocks thank is and micely to be and all

. To are very mich obliged for the information you payo

us in reference to municipy our pain lines, and we send you this merening another many which is marked in accordance with your letter and we shall be gift to know if the same work with your approvant. We allow the marked with the pass affected the process of the conductors in the same affected the process of underground conductors, in this class of conductor is conductor and more shalloctory that over head wires. We would like you satisfactory and give us information as so whether promise could be obtained for opening up the streets from which we provide could be obtained noted in with the chove, we thould be placed to have nect in with the chove, we thould be placed to have nect in with the chown, we thould be placed to have nect in with the chove, we thould be placed to hear from you as

18.03-12-13

December 13th.

W. S. Androws, Esq.

P. O. Box 505,

Fall River, Mass

Donr Sir:-

We have your letter of the 13th, inst. in reference to pressure indicators, and in "oply beg to say that we differ with you very materially.

It is the easiest matter imaginable to keel this adjusted and we think that the more you work with them the better you will like them. Mr. Sprague entertained the same ideas in regard to them as you do when he first saw them, but he has since become thoroughly converted. We think you should wait and work with them awallo before you write them down.

In regard to having the conductors for inside work sent.

out in straight lengths, we can have any wire which has not yet

boon shipped cut in accordance with your letter, but if it has been
shipped it would hardly pay to bring it to kew York, have the

Amsonia people straighten it and return it to its destination,

In relation to running the 612 x 10 angine at 300 revelutions, we have at our Pearl Street station in this city run a 'la'2 x 13 ongine for sevention consecutive days at 350 revolutions.

December 14th.

J. F. Bunn, Esq.

Tiffin, Ohio,

Dear Sir:-

we beg to acknowledge receipt of your letter of the light, inst., and in reply would say that we are very much gratified to learn that you have made arrangements with outside parties for wiring. In your management of this the only point which does not meet with our approval is your having offered a premium to people as an inducement for them to take the light. We really think you will have cause to regret this.

Yours truly,

Thomas A. Edison Constn. Dept.

By 0 9

Docomber 14th.

3

Frod Catlin, Esq.

105 Broadway, City.

My Doar Catlin:-

Yours received. Johnson is fixing up a hose and a dynamo giving 2,000 volts to give an exhibition. He has measured the water stress and finds it about 550 chms, 2 2 section nor foot.

Very troly yours.

a07

December 14th. 3

7. S. Androws, Esq.

the carliest ressible mement.

Fall Rivor, Mass.

Doar Sir:-

In Mison has requested in to refer the attached latter in remark to regulators for the opera house at shandlin to you, with the request that you furnish drawings for those devices at

Yours truly,

Thomas A. Edison Constn. Dopt.

By a.O.J

Enclosure,

Docombor 14th.

Electric Tube Co.

65 Washington Street, City

Dear Sir:-

we have your lotter or the lith, inst, withdrawing your bids for the streetingsliation in connection with the following points, namely, Martford, Mayorhill, Uties and Governors Island.

In rolation to haverhill, we were on the point of sending an estimate out when we received your letter withdrawin; your bid. We shalltherefore be glad to receive from you atthe earliest possible mement another statement showing what you will charge to do this work, in accordance with the plans you already have.

Vory truly yours,

Thomas A, Edison Constn. 1

December 14th.

William Schwonl, Esq. Prost.

Mt.Garmel, lenna.

Door Sir:-

In relation to the extension of the pole lines at 0t.

Carmol and the alterations which you desire to be made in connection with them, we wired you this afternoon that the cost of making this change will be 3041.07.

We beg to enclose herewith our estimate No.78,P for this work, and upon its acceptance we will order the additional wire and other saterial and have the lines erected in acceptance with same. We also send blue print showing the projected alteration of the Kt. Carmel pole lines.

Yours traly,

Thomas A. Edison Constn. Dopt.

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a.07

Fralesan

December 14th.

9

John Hoskin, Esq. :

G lodger Building,

Phila, Fenna,

Doar Sir:-

In reply to your lotter or the 13th, inst. I be: to say that it will require two resistance boxes, and they should be connected so that both will move together, but detachable.

Yours truly,

Ja.E

December lith.

H. C. Mc.Cormick. Esq. Prest.

Williamsport, Ponna.

Dear Sir:-

Willyou kindly lot us know if we can cross with poles through the center of blocks B and C to the northern alloyin block D.

We received your telegram of this common giving location of central station.

We hope to merrow to see Mr. 7. Of Detwiler, from whom we had a tologram sating he would be in New York late to-night with the japers in connection with the Williamsport contract.

Very truly years.

Thomas A. Edison Const. Dept.

Dv.

0.07

December 14th

-3

John Ott, Esq.

202 Avenue F, City.

Dear Sir:-

Have you ever made up any more of that duplicating ink?

Yours truly,

Jai

December 15th.

The Armington & Sims Co.

Providence, 9. T.

Dear Sira:-

We beg to inform you that on the ula x 10 angine sent to rall River one of the fullays, we presume the regulator fullay, has only a 7° face, while the other hazan 8 2° face. As we drive from both fullays of this engine and use is belts in connection with them, it is necessary that both should have it a face, and it will therefore be necessary for you to furnish us with abother pallay for this engine in accordance with the above.

Yours truly,

Thomas A. Edison Constn. Dept.

By Q_1Q_1

Please hung the Bill forward To E

December 15th.

George P. Cross, Esq

Paserag, R. I

Doar Sir:-

photograph.

We have your letter of the 12th, inst., and in roply bon to say that for Edison would like to have you send him your

urs truly,

Pair Sec

Docomber 15th.

b. M. Osborne, Esq.

Auburn, N.Y.

Door Sir:-

Will you be kind shouth to send us the exact dimensions of the lot which you note on the chart of Auburn as the Sisson lot.

Thomas A Edison Constn. Dopt.

1 ao 0

Personal.

December 15th.

W. D. Rich, Hog.

Masleton, Jenna.

Door Sir:-

ion is of the pole line work done at Tiffin by Niblor. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

76.E.



December 15th.

7. D. Rich, Esq.

Hazloton, Penns

Dear Sir:-

We bug to confirm our telegram of yestermay's date stating that the Williamsport confract had been closed, and under same cover we send you a plan of the Williamsport station, also a sketch showing its position in relation to let. You will notice that there are send alterations on this plan in connection with the stack. The dimensions as shown are correct, but the portion referred to is not drawn to scale. We will in a day or two send you another man drawn to scale.

We also send you a copy of our estimate, and wish you would be kind enough to fill out as accurately as you can the actual cost of each item.

We cannot as yet give you any information in regard to
the number of poles you have to secure, as the course of the conductors is still under consideration and will not be finally deended until next week. It would be as well for you to go to
williamsport at once and arrange about the material for your
building, and we will furnish you with the other information at the

carliest possible mement.

Yory truly yours,

Thomas A. Edison Constn.

Enclosure. F.

December 15th. 3

Frank B. Rae, Esq. Supt.

Commercial Telegram Co.

18 Broadway, City.

Doar Sir:-

In reply to your lotter of the 19th, inst, we beg to say that we will give you sevention cents appound for the wire you specified therein.

Please advise us if you will accept this offer.

Yours truly,

Thomas A. Edison Constn. Dept.

---/

December 15th.

James S. Reager, Esq.

care Tiffin Edison Electric Illg. Co.

riffin, oni

Doar Sir:-

We have your letter of the 1sth, inst., and in reply bor to say that we sincerely recret the dissippointment you have met with in connections with discounts from Bosses. Bergmann & Co. We should be very glad to do all in our power to assist you in obtaining the discounts you desire were it not for the fact that we have no voice whatever in the management of Bosses. Bergmann & Co's affairs. Our only connection with them is that we order material from them for our control station work, and we never have occasion to order such material as is used for housewiring and fixtures which is always supplied by Bosses. Bergmann & Co. to the local parties who do the wiring.

If you will allow us to make a suggestion, we would say that we think you would be perfectly justified in calling upon Mr. Shaw to make good his guarantee, and by this means reduce the cost of the fixtures to the point desired.

Again repretting our inability to assist you in the matter, we been to remain,

Vary truly yours, a Edien bush & gr

ocombor 15th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Door Sir:-

We are in receipt of a letter from our Chief Electrical Engineer, in Andrews, and in referring to a bool of questions which we have gotten up in order to examine engineers desiring to obtain positions with us, he states that in each duse the said applicants for positions state that beiler should be caulted cold and that the A. S. engine should have a small lead. This is in direct opposition to the views we have entertained in regard to those subjects hitherto, and we address you in the matter that we may obtain you very valuable opinion.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Docomber 15th.

Frank S. Harr, Esq. Treas.

Sunbury, Ponna.

Dear Sir:-

We have your letter of the lith, inst., and in reply we wish you would very kindly ask your engineer at Sumbury to send us an exact report as to the frouble he experiences with the belt in question.

We are pleased to know that you have made arrungements

Very truly yours,

Thomas A. Edison Constn. Dopt.

QØ:7,

Decomber 15th.

liessrs, Herris & Rubinsur

. Hartford, Conn.

Dear Sirs:

We best to notify you that we togady withdraw all esta mates we have made up to this writing for the installation of an Edison Electric light Central Station Plant at Hartford, Conn.

Vory truly yours,

Ey 0,0,7

W. J. Jonks, Esq. Hanager,

Brockton, Mass.

Dear Sir:-

In regard to supplying you with two 400 light dynamos for the swockton station and taking back one too light dynamo, we beg to say that we will furnish them two machines with regulators, not them up, furnish and put in switches and do all work in connection with making the alteration for the sum of \$1,200.

This bid, however, does not include any change of main shaft or pulloys of ongine. We believe you are in consumication with hears, Armington & Sins in Mard to this latter change and that it is your intention to do that portion of the work yourself.

We enclose herewith a plan showing the positions of the degine and dynamos after the change is made. If you desire any further details in connection with our estimate we shall be glad

very truly yours,

Thomas A. Edison Constn. Dept.

Ву

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December 1.141

W. S. Androws, Esq.

F. O. Box odd,

Fall River, Hass

Door Sir:-

We have received your communication in reference to his George A. Hefmeyer, and the book containing his unswers to questions in repart to engines and believe came to hund to-day.

He appears to be fairly well posted, but yet will have to learn considerable before he will be thoroughly competent.

Will you ploase lot us know his ago, where he lives and what salary he is at the present time in receipt of, also his present duties and what salary does he expect to get from us, also what is his nationality?

We return to-night the book wherein he answers the questions referred to.

Yours truly,

Thomas A. Edison Constn. Dopt.

a 0 0

1883-12-15

December 15th, 1863.

Gustav Soldan, Esq. Supt.

101 Goorel Stroot, City.

Dear Sir:-

On the 18th, inst. we referred to you a letter from the Mestern Edison Light Company in remard to furnishing them with the new style commutators for "F" matchines, and we asked you to send us the price of this commutator and state of the same time whether you thought we could concede to their wishes. We to-day rind that you replied directly to the Mestern Kaison to. In ruture when we nake you to give us information, will you be kind enough to reply to our request. It is impossible for us to maintain the correspondence of this office unless we are allowed to answer communications which are addressed directly to us.

Yours truly,

Ja E.

Docombor 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Goord Street, City.

We beg to sny, in reply to your letter of the lath, inst., that we shall of course have the drawings of the engine which the Straight line Company are now making patterns from It may be well for you to go up to their place some time in January.

Yours truly,

The Edison Bachine Works,

15 70

December Afrh.

E. li. Jord, Esq. Treas.

lewronce, tass.

Dear Sir:-

We less to ash a whoshes with seary thanks receipt of your letter of the lath, inst, emel. sing erect for 34,000, on account of the lawrence installation.

In renard to pressure and calors, we hope in a few days to be able to supply you with the improved style of indicator which has lately been setten up by in this on. These are perfectly reliable and will obviste the difficulties you meet with at the present time.

In remard to using our fairly, we wish you would prepare an exact statement or all the joints wherean we have been at fault, and which you consider should be righted by ur. We will then be able to take proper action in the matter.

Very truly yours,

Thomas A. Rdison Constn. Doit

Rv

ady

Docombor 15th.1883.

Gustav Soldan, Esq. Supt.

104 Goerek Street, City.

Dear Sir:-

Referring to the attached letter from Mr. P. E. Clarle, of the lawrence Company, will you please let us know if the amanture which burnt out at the Pemberton Company's Hill was defective and if the burning was due to such defect. Please answer this question to us, as we high to write Mr. Clambs on the subject ourselves.

Yours truly, The Edison Machine Works,

By Jag

Enclosure, 1

l'orsonal

December 15th.

3

I. C. Walker, Ecq.

Tiffin, Chic.

Dear Sir:-

Will you be kind onough to let us know what your opinion is of the pole line work down at Tiffin by Liblor. Is it all rood substantial work and what idea have you formed in connection with that part of the installation.

Vory truly yours,

December 15th.

I. C. Walker, Esq.

Tiffin, Ohio

Doar Sir:-

We have your letter of the 13th, inst., and in regard to the lumps which judge bunn has requested you to have sent forward, we have to-night written judge bunn to send us an official order, so that the established routine of our business may be sustained.

Yours truly

Thomas A. Edison Constn. Dopt.

E

(100 h

Docombor 15th.

Charles Y. Maite, Esq.

102 John Street, City.

Dear Sir:-

In reply to your letter of the 14th, inst., we beg to say that on account of the delay which has taken place in connecting with supplying us with the sulphate of zinc ordered by Mr. Edison, we were obliged to place an order elsewhere.

We shall, however, be filed if you will send us a sample and also send 500 lbs. to Thomas A. Edison, care Pergmann & Co., 2002 Avenue B, City.

Yours truly,

Thomas A. Edison Constn. Dopt.

By agn

W. S. Androws, Esq1

P. O. Box 505,

gall River, Mass

Doar Sir:-

We have your letter of the 14th, inst. in regard to the belts used in connection with the "Y" dynamos at Mall River.

In regard to commenting these bolts instead of riveting them, we adopted the former method of contact in order to step the noise, but insummed as our experience with essented belts up to the present time condesses their use, we will in future have them riveted.

The chemicals for Vall River were shipped either yesterday or to-day, and we are hurrying Bergmann & Co. on the meters.

In regard to carrying in stock at our contral stations a spare wrist pin stra; and bearings for the Armington & Sime' on inos, we will communicate with you later.

Yours truly,

Thomas A. Edison Constn. Dopt.

By a, O, J,

. [

W. S. Andrews, Esq.

P. 0. box 565.

Fall River, Mass

Doar Sir:-

In relation to starting the Fall River station, are you nware that br Edison desires to run this installation for about a day and a half without any lights shatever being cut in on the district. Dease send us a tologram stating when you will be roady to start, so that Mr Edison can go to Fall River Monday night if necessary.

Yours truly,

Thomas A. Edison Constn. Dont.

7883-/2-/5

Mossrs. Hergmann & Co.

292 Avenue B, City,

Doar Sirs:-

We beg to anclose herewith a letter from Mr. Androws
which he sent to us for perusal with the request that we should
cond it to you when we were through with it.

We consider in Andrews idea as to having an "A" and a "B" ampere meter a very good one. "Anald it not be advisable for us to whot these forms in future?

Yours traly,

Thomas A. Edison Constn. Dopt.

1,0,7.

Enclosuro, m

Paul D. Dyor, Esq.

St. George Notel,

Dallas, Toxa

Doar Sir:-

We have your consumications of the 10th, inst.

We have to-day forwarded to Dallas the special report

In relation to the assumt which should be to your credit in this office, we are having the matter investigated and will advise you later.

Yours truly,

Thomas A. Edison Constn. Dept.

Rv

00.0

R. Young, Esq.

Sy Hancock, Street.

Boston.

Dear Sir:-

I have your letter of the 12th, inst, in reference to a position in my Laboratory for the son of Mr. Adolph Satro.

I regrot to state that at the present moment I have all the assistance in my laboratory that I can use, but about the lst. March I expect there will be an opening, when I shall be pleased to hear from you again in reference to a position for your ward.

Very truly yours,

3

E. Buchol, Esq.

201 Conti Stroot.

New Orleans, 1a.

Doar Sir:-

execondingly that a former letter which I wrote you has apparently miscarried.

The painting came to hand saidly, and I can assure you that I am delighted with it. It is hanning in my office at the present time, and I consider it one of the finest pieces of work that I have soon in a long time.

Did you not make some request in your former letter in relation to a Phonograph? If you will repeat this I shall be only too happy to attend to it.

Again regretting that the transmission of my thanks has been so long delayed, believe me to be.

Yory truly yours,

December 15th, 1883.

W. H. Dwelloy, Jr. Esq. Treas.

Fall River, Mass.

Doar Sir:-

We have your latter of the uth. inst. in regard to the second "1" dyname supplied for the Flint Hills.

In regard to a hood on the aranture, it is not now our custom to supply hoods, and this one was consequently shipped with a canyass head. Ir, however, you desire us to supply a hood, we can make one and forward it.

Our Superintendent informs us that there were no parts of this machine missing at the time it was shipped, so that if any of the parts have not been received at the Plint Mills, they must have been lost in transit. The sachine which we sent you was not an old one. It would be impossible for us to supply our customers with old machines, imagnich as the moment a machine is completed it is sold and shipped.

Yours truly,

The Edison Bachine Works,

Ja E

S. B. Eston, Esg. Prost

Edison Electric Light Co.

as Pifth Avenue. City.

Doar Sir:-

We have the pleasure to enclose you herewith our estimato No.50 for the erection of an Edison Electric light Central Station Plant at louisville, ky, of 6,400 lumps empacity, and amounting to \$100,079.19, and we beg to call your attention to the fact that the Street Installation provides for 7,624 lights, or 1.224 more lights than the nominal capacity of the plant.

We also enclose estimates of daily running expenses and probable profits, and you will observe that the latter shows excollent dividends upon a capital of \$255,000.

In regard to your memorandan of yesterday's date, we box to say that it is not our custom to sign these estimates. If, however, you desire this one signed I shall be glad to comply with your wishes.

very truly yours.

December 15th.

Edison Co. for Isolated Lighting,

. Butchinson, Esq. Secty.

city.

Door Sir:-

we have made up to this writing for the installation of an Edison we have made up to this writing for the installation of an Edison Electric light Central Station Flant at covernors Island, R. Y. Yours truly,

Thomas A. Edison Constn. Dept.

Hy AOJ

.Docomber 15th.

Charles T. Hughes, Esq.

Morgan House,

Poughkoopsio, K. Y

Doar Sir:-

We ber to enclose herealth our estimate No.38 for the installation of an Edison Electric light Control Station Mant or 500 lamps capacity and amounting to \$10,103.24, together with map marked "A" showing the course of the mains and feeders in red and white lines.

You will observe that this estimate is for an underground installation, and that the conductors are for 558 lights,

We cannot send this estimate out without stating to you that we consider it one of the cheapest bids we have ever made for an installation of that size. Haverstraw is the most compact town we have yet had to doal with, and for this reason our estimate is a low one.

The few days we will sond you another estimate for a pole line installation, but as a permanent investment we should very strongly advise the adoption of an underground system,

At Figua, Chio we are now installing a plant of 500 lights espacity, and the amount of the estimate is \$10,031.49 You no doubt understand that the estimate in question was formerly sig. 676.40, but, owing to the Piqua Company being unable to run slong a cortain street, the lines have had to be changed, and necessitates the increase in the amount of the estimate. It is a pole line installation.

Very truly yours,

Thomas A. Edison Constn. Dopt.

Enclosure

cember 17th.

B. Shaw, Rsq.

Cincinnati, Ohio,

Door Sir:-

We have your letter of the 13th, inst., and bog to congratuate you upon having at last secured a let at Middletown, in

In regard to the new location saving considerable conductors and feeders, we beg to remind you that we already have our copper at Middletown for the conductors and feeders, based upon the assumption that the lot given us in the first place was to be purchased. Whe new location changes the size of some of these purchased, but to what extent we cannot at the moment tell, but we are having the figures made up, and if they accept our confract price, I shall of course lock to the Middletown Company to reimburse us.

We must protest against these lots being selected after our contracts are closed.

The outcome of the Fique and Middletown business will be that we will have on our hands a lot of wire that we cannot use possibly for some months, which will necessitate our loosing interest on the money invested in it, which is a considerable item.

In regard to the buildings at Piqua and Middletown, we would say that our engineer in computing the cost of the Middletown building calculated upon patting up a brick structure instead on

frame, as is mentioned in the estimate. It is our intention now to erect a brick building at kindletown, but the price we quote for the Piqua building is insufficient to admit of our adopting the same course there. We will erect a brick building at Piqua for the same price as we charge for the Middletown building, namely, \$2,210., or \$800. above the contract price.

In regard to the progress we are making in Penns., we ben to say that the Mt.Carmel building is finished, except the inside, the Pollefonte building is in the same condition and the Maxleton building will have its roof completed to night.

We have done quick work in these places notwithstanding the fact that the local people appear to be unable to see it.

We will have an expert wireman in Bellefente in the course of a few days.

You had better advise us by wire of your decision in connection with the brick building for Piqua.

· Vory truly yours,

Thomas A. Edison Constn. Dopt.

By Ja, E.

December 17th

M. C. Trumbane. Esq

Easton, Fenna

Dear Sir:-

In relation to your jostal eard asking about my alloged electrified health indicator, I beg to inform you that I have no such invention, and that the device which is manufactured and sold as "The Edison Health Indicator" is, in my opinion a complete fraud.

Very truly yours,

Ja E

December 17th.

James A. Blair, Esq.

Commercial Bank,

Tiffin, Ohio,

Door Sir:

We have your letter of Nevember 30th., and in reply bog to say that we were quoted massial rates ever the Jackawanna Past Proight line to Tiffin, and these rates were obtained for us by our froight broker, who get quotations from the Star Union Line, but as they were not us satisfactory as the former, we of course would not accept them. We would like very much to have been able to oblige you am ship our asterial by the Star Union line, and, at the time the subject was first brought up, we stated that if your Company would agree to pay the difference between the Star Union rate and the special rate quoted us by the Jackawanna Line, we would ship by the route you desired. You of course could not expect us to do more than this.

Very truly yours,

Thomas A. Edison Constn. Dept.

1110

y a y -- y da a san

Messrs. Bornmann & Co.

393 Avenue B. City.

Doar Sirs:-

We have your communication of the 15th, inst. in regard to sulphate of zinc.

In roply we beg to say that Mouses. Powers & Wolghtman
furnish sulphate of zinc which is far superior to that which
Mr. Chimnesh purchases. Mr. Chimnesh gets this material from Messrs
John & Pink. We ordered a large consignment of zinc from the
latter people which has proved absolutely useless, as it contains
a quantity of iron. It must be distinctly understood that you
will buy from Messrs. Powers & Weightman the chemically pure brand
and never change or try to get thesper stuff, as the chemically
pure brand is the only kind that you can use.

Woode not wish to guarantee anything further than that we expectively will jurchase our sulphate of sine from you, provided you feet as good a brand as can be getten elsewhere. Furthermore, we will instruct all local companies to obtain this material from you, and such instructions will be sufficient for you to control the trade.

Please let us hear from you as soon as possible, and

also inform us as to when we can place our first order with you.

Yory truly yours,

Thomas A. Edison Constn. Dept.

By

Dec. 17th.

H. C. Balkpap, Esq. Treas.

Edison Eloc. Ill. Co.

Newburg, N. Y.

Z ... K

Dyar Sir

will you kindly lot us know the exact condition of the Newburg building, we wish to approximate as closely as public the time when we can send our wiring experts tol commence work on the interior of the Station.

Voly Truly Yours,

Thomas A. Edison, Constn. Den't

.

.

December 18th

Doutsche Edison Gosellschaft, Borlin, Gormany.

Dear Sirs:-

tion to dynamos tabog to say that our Company hore have stopped solling 25 light machines, as they find it does not pay to send a man a great distance and have him remain there some time.

The 50 light dyname is the lowest they sell, and we are not going to make any more 25 light dynames. The price charged fou for the last 50 light dyname sent, namely, \$250. F. C. B. New York, is the lowest figure I can place this machine at. It seems to me that ya you ought to be able to make them much cheater over there.

In regard to our accounts, I mailed you a few days ago a statement showing your indebtedness to me to the extent of \$2,560,05 Your remittance you mention in your letter of the 3rd, ingt, namely, \$495, has not yet been received by me, but will I prosume come to hand in a day or so. This leaves \$2,103,95 still due me by you, and maish you would very kindly, upon receipt of this letter, sond me a cable remittance for the amount, as the

2

prices which I gave on your material will not admit of my carrying the accounts so long on my books, and I require to use the money.

Yory truly yours,

20%

ecember 17th.

W. L. Garrison, Esq. Treas.

boston, haus.

Doar Sir:-

Reforming to our letter of the 5th, inst., with which we enclosed statement of account against your Company, will you very kindly send us a check for the amount, namely, \$1,827.42, as we require to use the money very urgently. We should like to receive this check perceptions.

Very truly yours,

Thomas A. Edison Constn. Dert.

В

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December 17th. 3

Messrs. Harris & Robinson,

Hartford, Conn.

Door Sirs:-

We have your lotter of the 15th. inst., englosing a notice of a meeting to be held in panbury this evening. We trust you will advise us of the result as this meeting will have in connection with the acceptance of our estimate, as of scarse you understand that to-marrow it express, and we would like to furnish you promptly with fresh estimates, providing you need them.

Yours truly,

Thomas A. Edison Constn. Dopt.

By 207

Docomber 17th.

F. S. Wastings, Esq. Treas.

Edison Electric light Co.

City.

Door Sir:-

Referring to the attached correspondence from Mr.

Dwelley, we begt to say that 150 sixteen candle lamps would be
plonty to send on to Fall River at the present time. If these
local companies were permitted to do so they would put in sixteen
candle lamps everywhere, whereas not one out of every ten could
tell the difference between the ten and sixteen candle power lamp
were they placed side by side. They should not be permitted to
distribute sixteen candle power lamps over the Pall River system
as they placed, and we strongly advocate only supplying the consumers with a limited number.

Very truly yours,

Thomas A. Edison Constn. Dopt

By aoy

Enclosure

Documber 17th.

Jamos Farris, Esq. Secty.

Pollefonte, Penna,

Doar Sir;-

We have your letter of the lath, inst, in regard to a wireman, and in reply bog to say that we hope in a few days to have our expert at Bollofonto to tale charge of this work. in the interim you might select a local plumber whom you think would be competent to take charge of this work, after being properly coached by our export. This would avoid any delay in the seloction of a man after our expert arrives in Bellefonte. We presume that you understand that it is our policy not to have the local company take any part whatever in the wiring of buildings for the Electric Light. The parties who have their buildings wired will be responsible for the cost of same to the plumber. whom our export will teach to do the work. . He will receive all nocessary instructions so as to make a regular business of it, and by this means the local company will avoid any trouble with parties in connection with the non-payment of their bills for wiring and fixtures. This coyrse we have adopted in other places. and our experience has been that it is the only proper method of conducting that branch of the business. Were the local company to do the wiring, after they had supplied the customer with light, in a great many cases, the said customer would refuse to pay his bill for wiring and fixtures, antertaining the idea that the local company would prefer retaining him as a consumer of light rather than take the fixtures out of his building.

In regard to lemps, we shipped your order on Saturday.

Very truly yours,

Thomas A. Edison Constn. Dort.

005

Charles P. Lyon, Esq.

Now Amorican Notol,

Circloville, Ohio

Dear Sir:-

We have your letter of the 15th, inst., in regard to furnishing wax local parties with information. We treat you will not attempt to quote any prices in regard to an electric light installation. It is impossible to approximate the cost of an installation in any town with Earcty, and we profer our convassors to discuss these subjects as little as lossible.

We have pleasure in sending you by same mail the bulle-

Yours truly,

Thomas A. Edison Constn. Dept.

December 17th. . .

Mosors, Markle & Hell,

03 Congress Street,

botroit, bich.

Door Sirs:

Under some cover we send that a map of Grand Haven,

Bich. In addition to supplying us with information in accordance
with the annexed form, will you be kind enough to examine carefully the course of our proposed street installation, which is
shown on the map by red lines. If there are any obstructions,
such as trees, telegraph or telephone poles, which would prevent
our adopting the course we propose, we should be glad to have any
suggestions you may think desirable to make in regard to alterinitives. The red circle on the map shows that part of the town
within which it is desirable to obtain a lot, and the best location is a near the center of the circle as possible.

Very truly yours,

Thomas A. Edison Cometn. Dort

By

ny

December 17th.

M. C. Belknap, Esq. Treas.

Highland National Bank,

Nowburgh, N.Y.

Dear Sir:-

Will you kindly lot us know the exact condition of the Nowburth building, as we wish to siproximate as closely as possible the time when we can commoned work in the interior of the

Very truly yours.

Thomas A. Edison Constn. Dopt.

By a O. J.

December 17th

9

W. A. Croffut, Esq.

359 West 23rd, Street, City,

Doar Sir:-

In relation to your communication of the 10th, inst.,
I hop to say that Mn Edison lowes town to-morrow ovening for
Wall River. He may return the latter end of the week,

Very truly yours,

1.9. PARC

New York, Docember 18th, 1883.

Sergone 85 Fifth Avenue,

My Dear Insull:

I should have setting you last wook, but I thought it better to wait until one Saturday had passed before doing so, in order that I might give you, a history as to how I got through the "black day". On Saturday Borning I had \$4,500. In the bank altogether. I went down to Hastings and got \$1,000. from him, Out of this I paid Brucesi \$1,000. and gave Bergmann \$700., as they were both very hard up. I paid the Machine works pay-roll and contracts together with our office pay-roll, also met a Machine works note, and yesterday I was advised by the Germania that the \$3,000. note, which I get from Wastings least Friday, had been discounted by them, so on Monday merning I came out sith \$4,346. In the bank, which will run me through all right this week.

hr Edison went to Fall River to-night, and the station is to be started to-merrow, and that means a remittance of \$20,000. from them. Mr. Edison will see that a check is sent to me promptly.

We closed the williamsport business on Saturday last.

As you understand we sent them the forms of agreement and one of those Mr. Edison signed before it left the diffice. The williamsport people closed the contract on the old basis, which was a point that Mr. Edison desired to avoid. The new canvass which we propured is ready, and they have a chart with the lines marked in accordance with this new map, and we are new trying to have

Immediately after you left here, I wrote again to Lord for that remittance of \$5,000, and on Friday received a check from him for \$4,000., and he said he would remit the balance as soon as he get it.

I wrote to Garrison yesterday to send us a check for the S1,800, still due upon Brockton, and hope to hear from him before Saturday.

I have to meet about \$4,300. on Saturday, but will have no trouble whatever in doing so, as prospects are good.

CANVASSERS. Dyer has completed his canvass of Galveston and is in Dallas, and from that point he goes to Shorman.
Wilbur has completed Atlanta and is in Mobile, from which point he goes to Noxville. Cooke is still with Markle & Hall, and lyon is just about through with his canvass of Circleville, Ohio, artor which he returns to Pennsylvania. I will see that your instructions as to the disposition of these canvassors after January list are carried out. We cortainly will require more help in this line.

There were some parties came up here from a town in Ponnsylvania near Register. Show had never been hear the town, nor approached any of the people in regard to lighting. The gentlemen of whom I speak had been around visiting Shamokin and

amount required for the above turposes. I was still \$400, short. go to the Bank of the Metropolis with me where we saw the Manager. and we arranged with him that I should sign a check, "Thomas A. Edison, by A. O. Tate", for \$400., the Edison Electric Light Co. by Mr. Hastings to guarantee the Exers signature, and they would lot me have the money. This I did and got through the day without any disastrous results more than a slight headache. In further discussion of money matters, you will no doubt recollect that the contract we made with the Fall River Company differs materially with any of our other contracts. The first payment in connection with this installation was ton per cent upon the signing of the agreement, twenty per cent on October 25th, twenty five per cent whon the installation was ready to supply light and the remaining forty five for cent when the installation had been in condition to supply light thirty days. The above mentioned ton per cent. namely, \$4,180,98, was paid upon the signing of the agreement; about October 26th, two other payments of \$4,000, each were made by the Wall River Company, the same being the twenty per cent referred to, and on the 27th, November Dwelley sent us his check for St, 500. which was a portion of the twenty five per cent that should have been paid when the installation was ready to supply light.

I will receive from Dwelley to-merrow a check for \$4,000., and this is the only payment that will be made on account of this installation until the 18th. January, when there will be \$17,128.00 due. You see by the arrangement made with these people that the greater part of the money, instead of being paid in when the installation was ready to supply light, does not come to hand until we have run it for thirty days.

Now in regard to our contract with the Amsonia, we own them on argoint of wire supplied for Fall River \$4,950.20, and seventy five per cent of that amount is \$3,718.05, which consumes the \$3,000 that will arrive to-morrow. I do not yet know the amount that the williamsport people into dremitting. They owe us \$13,000., and I fancy it will be at least half of that. I shall go to Mastings to-morrow and tell him that I want a good remittance on account of the Machine works on Saturday, and that I simply must have it. I can pull through all right, but will have to give Babcock a Wilcox A note to-morrow for the amount

I have a note due on the 12th, January for \$2,306. White the wo issued to Bergmann & Co. I have another on the 24th. for \$1,240., and there is nothing then until the 17th. Pebruary, at which time there is a small one for about \$520. If I bring t Babcock & Vilcox' note in about the 1st. Pebruary it will be all right, as at that time we will have been in receipt of the last payment on account of Fall River, and can meet it without troubl

Tiffin station will be ready to start up in about two weeks, which will remit a payment of 30,000. from that source. NT. Carmal will be ready to start at almost the same time, so you see as long as Mr. Edison is within reach I will not got laft in the money line. It will be a very fragid day when he leaves me in the same box as he did last Saturday, as I shall take care I have planty of checks so long as there is money in the bank to sustain them.

On the 19th, inst, we billed am the Societe Industrielle with S787. For material shipped them, and they new owe us \$1,332.21 We billed the London Company with \$450.50 on the same date, which makes the amount due us by that corporation \$820.59. This information I believe you desired transmitted to you.

In regard to the Williamsport, I forgot to mention when speaking of it that we will not issue any orders in connection with that plant until the full amount of the first payment has been made. We have a full list of the stockholders, and are to-flight going through brandstreets to find out how they stand,

CANVASSERRY I think I told you in my last letter that Cooke had finished with Markle & Hall, but we were requested by them to allow him to remain a while longer in order to complete a canvass of Adrian, Mich. He will be through there to-morrow, and as the light Commencanxious to have a report on Meriden, Conn., we will send him to that point, after which he can canvass Rendout and Kingston, N. Y. Lyon is at Pottsville, Penna. Dyer is on the point of leaving Dallas for Sherman, and Wilber is making a canvass of Knoxville, after which he goes to Danville, Va.

MACHINE WORKS. It is pretty hard work to get Soldan to turn out machines quickly, but we must give him credit for having made a good shipment on Monday last. He forwarded the Bellefonto. Mazleton and Mt. Carmel machines on that date, which were two "Y's each for the first and second places and two "S" nachines for the last. The Newburgh machines go forward on Friday next. Lawrence Company have ordered from us two more "is machines and another 14 2 x 13 engine. The former were shipped to them on . the 22nd, inst, and the engine goes forward to-morrow, together with the bedplate and washers. The bolts are already in the foundations which Rich loft propared. I received to-day a letter from Tord, which is to say the least amusing. You no doubt remember what a disjointed correspondent he is and that it is almost impossible to gather anything from his lotters. He kopt harping so long upon the string of "treat us fairly", that I at last wrote to him asking him to submit to us a statement of all the points wherein he considered we had failed to live up to our contract. In his letter received to-day he states that we must consider them (the Lawrence Co.) imbeciles, and complains about us having supplied him with 10" bolts, about the delay to his dynamos and the tardy manner in which his meters are being supplied. In reply to Mr. Tord. I informed him that we were using 10" belts in the same connection with other installations, where they gave porfect satisfaction, and we saw no reason why they should not prove satisfactory at lawrence. I stated that we sincerely rewested being unable to control Messrs, Bergmann & Co's affairs,

and that we were doing all in our power to make thom hurry forward his material. In connection with dynamos, at the time he wrote his letter, which was on the 32nd, inst., there must have been one "S" machine at the lawrence dopot, as it was shipped from here on the 18th. inst. On the 17th, inst, he gave us an order for two "If" machines and they went forward on the 22nd. On the same date he ordered the large engine, and it goes to-morrow. We called his attention to these facts without commenting upon thom, and in relation to his insolent remarks about competent parties managing the business at this endouf the line. I stated that we would be greatly obliged if, in future, he would kindly suppress any suggestions in regard to the manner in which our business should be conducted. You cannot imagine what a "damned" impertinenatiotter he wrote. By roply is very mild and has not yet gone out of the office, and to-morrow I will show it to Mr. Edison, I made no further statements in it, except as detailed above, but if Mr. Edison considers this unnecessary, I will not send the lottor. I wish you were hore at the present time to reply to it.

In regard to bruest, he is as usual in a chronic state of "hard upness". The Illuminating Co. owes him about \$3,000., and he cannot strike them for a cent. I have had to carry him through over since you left.

Last Saburday Mastings had to give bergmann consider.

"able money to help him out, but this Saturday I am going to make
him give me a good payment, and also make a good payment to Kruesi.

We have heard nothing so far about the Danbury affair, and our estimate in that connection expired some days ago, and they have not asked us to make a new one. I see by the papers that about \$10,000, of the Danbury steel has been subscribed.

Forry came in to-night in regard to be Batchelor's stock and he teld me that he had been unable to do enything since you left, and I have embedded this in a cable to you.

I think I have exhausted all points of interest, except one, this point is our friend Mr. Gilmore. It is now only about ton o'clock, and notwithstanding the fact that he has had a regular "picnic" since you left, he is growling like a bear.

Trusting you are enjoying yourself, I am,

Very truly yours,

Piqua

Dec. 18th.

A. Stuart, Esq. Soc.

Edison Installation Co.

Cinn. Ohio.

Dear Sir:-

We beg to enclose herewith form of agreement in duplicate, forthe installation of the Pique plant, in accordance with our estimate to. 45F, and the accompaning exhibit marked "B" showing the course of the conductors, and which is a duplicate of the map that was furnished you at the time the estimate above mentioned was submited and accepted.

In regard to the communication which we have received recently, stating that it will be impracticable for us to run along him to, we would say that the necessity of making this change in the course of our conductors, will increase the cost of the Piqua installation by \$2.752. For his reason we send you herewith two more forms of agreements, for the installation of a 500 light plant amounting to \$16,631.40 to the her with map marked *6* and showing the course of the conductors which are so arranged as to avoid running along Main St.

19

In relation to the latter chart we would call your attention to the fact that it includes 150 lights, more than the old one, the average burning of the Siqua installation is any least 4 hours. If you soll light in Piqua for 1 conts, whose extra 150 lights will themselves bring you in a disidend of \$2500.62 for the first year, which is within a small amount of the cost of installing them. If it is your intention to soll light for I instead of 1 per hour, these 150 lights would bring you in a dividend for the first year of \$2,000.75 or \$117 in excess of the cost of their installation.

If after considering the pove facts you desire to accept our bid, in accordance with the map marked "C" which is the one including the lights above referred to, please have executed the forms of agreement sent you herewith and specifying the amount of the contract, which is \$16,631.40. Also please be kind enough to send us a check for \$608 which is \$25 per cent of the amount of the increase.

we look to them to obtain for us the mecessary permits to run, our conductors in accordance with whichever chart they accopt, and we do not held ourselves responsible for any failure to obtain such permits that would prevent our creeking poles, and running

we shall be glad to hear from you at the parliast possible moment, as we desire to order forward the additional wire if our chart "C" as accepted.

Vary Truly Yours,

Piqua Docember 19th. 3

P. B. Shaw, Es

Cincinnati, Ohio

Dear Sir:-

We bon to acknowledge receipt of your telegram of the leth, inst. Instructing us to put in a brick building at Pique and accepting our price, namely, \$2,210, or \$860. over and above the contract.

We have given instructions to have the work done accordingly.

Yours truly,

Thomas A. Edison Constn. Popt

Ву

Electric Pen

December 19th.

John Ott, Esq

292 Avonue B, . City.

Doar Sir:-

Please male up about two gallons of the duplicating

ink, and notify us when it is ready.

Yours truly,

Ince)

December 19th.

H. O. Stratton, Esq.

35v0livor Street.

Boston, Fass.

Doar Sir

Tokeyo your lotter of the 13th, inst., and in reply beg to express my regret at having everlooked your fermer letter.

The duplicating ink is being prepared, and will be sent you in the course of a few days.

Vory trally yours

Jak

December 16th. 1883

Gustav Soldan, Esq. Supt

104 Guerck Street, City

Doar Sir:-

Bolow we give you a list of the machines we desire to have shipped on the days specified;-

Two "!" Hackines on the 26th, and two "Y" machines on the 26th, prox. to Hewburgh, N.Y.

Two "Y" machines on the 24th, prox. to Bellefonto, Penna.
Two "Y" machines to Walloton, Penna, on the 24th, prox.

Two "S" machines to Mt. Carmel, Penna. on the 24th. prox.

named, and if there is any delay in the Testing Department, we wish you to report it at once to us and we will have it remedied. Unless these dynamos go on the date specified we will be sortedly delayed in our work, and you must do everything in your power to have them forwarded in accordance with the above.

We send you an order to-day to ship two the machines to Lawrence. These should be forwarded on Saturday doxt the 22nd.

Yours truly,

The Edison Machines Works,

December 19th.

Sponcer Borden, Esq.

P. O. Pox 3,331,

Boston, Mass

Dear Sir:-

In relation to real estate in Portland, we beg to say that if it is possible to obtain obtions in the blocks bounded by Brown a Elm Streets on the one side and Cumborland and Compress.

Streets on the other it would make a considerable saying in the second copper to be used. A lot in the block bounded by Brown, Cumborland, Proble and Congress Streets would be preferable.

We will forward the Portland estimates upon the assumption that the contral station will be placed upon one of the lots selected from those alreads submitted, but if we can obtain a lot within the area mentioned above it will make a great saving.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

12-2

December 19th.

Gardni C. Sims, Esq.

rovidenco.

co, R. I

Dear Sin:

We beg to acknowledge receipt of your letter of the 18th, inst. in reference to the valves of the 14 2 x 13 engines being bored for five inch steam pipe.

Wo also note your remarks in reference to our Piqua and

wo will send you by to morrow's mail a list showing the dates we desire the engines you have linda-construction for us shirted.

Many thanks for your statement in regard to caulking a boiler, also about the lead of your encenses. Do you consider it necessary for us to carry a spare wrist pin strap and bearings for each one of your energines that we have installed at any station.

Very truly yours,

Thomas A. Edison Comstn. Dpct.

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Docombor 19th, 1883

Gustav Soldan, Esq. Supt.

104 Goorck Street, City.

Doar Sir:-

Are you doing anything about paper belts? Please send us the address of the party from whole you get the sample pulley for test,

Yours truly,

The Edison Machine Works,

By J.a. E

W. D. Rich. Esq.

Doar Sir:-

We are in receipt of a letter from the Treasurer of the I awronce Company stating that they want two more "H" machines and . the other 1412 x 13 engine, specified in our contract with them.

> Did you put in a foundation at Lewrence for this ongine? Yours truly.

> > Thomas A. Edison Constn. Dort.

December 19th.

W. D. Rich, Esq.

Hasloton, Ponna

Doar Sir:-

We enclose herewith a number of recognandations from the derivat begins to obtain a situation with us setting up machinery. He has been connected with the Straight line Engine Company, and he has seen excellent testimentals. If you require the services of such a person, please let us know, and return the enclosed papers, obliging

Yours truly,

Thomas A. Edison Constn. Dept.

By a.O.

Enclosure, a

Docomber 16th

E. H. Jord, Esq. Treas

Jawronce, Mass

Doar Sir:-

In reply to your latter of the 15th, inst, we been to say that the other "S" dyname with the extra 10" pulley was shipped to you yesterday.

We have sont the 12° and 10° pulleys, because we think you will find it advisable to change after running the 10° pulleys for a time.

We can forward the two ris machines early next week,
and we have ordered the la 2 x 23 engine, which we think can be
supplied promptly, but in regard to this matter we will write you
in a day or two.

Yours truly,
Thomas A. Edison Constn. Dept.

12.

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M. C. Bolknap, Esq.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We beg to achnowledge receipt of your letter of the 17th inst., and in reply would say that the necessary services for Now-bursh have gone forward.

Resers. Bergmann & Co. Will give you prices for sockets

In regard to house wiring, we would impress upon you the fact that it is very unwise for your Company to have anything whatever to do with this kind of work. When you are ready to have house wiring done we can send an expert to Newburgh, who will teach a local plumber or some such suitable person how to do it.

our experience has been that if the local company takes in hand such work as this the parties who have the wiring done will have, in a great many cases, has their bills for wiring unit of the light has been furnished, and then as a man our objections to paying these bills, entertaining the idea that the company would profer retaining them as considers and allow the bill to go unpaid, rather than take the fixtures away from them. If, on the other hand, these parties are responsible for the amount of their

wiring bills to some person who has no connection with your Compuny whatever, except having your approval to do this kind of work,
it will be impossible for the consumes to enter into a discussion
with your Company as to the payment of their wiring bills.
We advocate this course as a protection to your Company, and would
strongly advise your adopting it, inasmich as it has been perfectly
successful in other places, and in two or three towns where the
local companies disregarded our advice on this subject, they have
had trouble in the manner herein set forth.

As soon as you have applicants enough to warrant our sending on a man there, we will do so.

fours truly,

Thomas A. Edison Constn. Dept.

By.

201

December 19th

Messrs. Bergmann & Co.

292 Avenue B, City.

Door Sirs:-

We have your letter of yesterday's date in relation to the charge we made against your withing Department of \$362,34 for work ordered at Shamekin by your archiman, Mr. Johnson, and also comprising certain charges which the Shamekin Company deducted from our contract for the non-performance of work, in connection with the erection of pole lines.

Ve have read with interest your lotter to the Shamekin Company, and we cannot suggest any other way in which the matter can be discussed. We did not send you a bill for \$302. In order to effect a compromise, but we consider that, in order to make an equitable division of the loss sawtained by as all on this plant, we are perfectly justified in taking you to have that portion which directly concerns your work at that point. We have forwarded your letter to the Shamekin Company, and we have no commonts to make upon any discussion you may have with them, but our loss on our own work has been so very heavy in connection with this installation that we cannot consider any proportion which will have in view the placing to our condition a loss amount than \$302.34, in accordance with the bill sent you on the tovember

28th.

Very truly yours,

Thomas A, Edison Constn. Dept.

By

Dec. 19th

Messrs. Begmann & Co.

292 Ave. B. City

Dear Sir:-

Roplyimmic your lotter of the 12th, inst. in regard to discounts for bove 60., we belt to say that on Sept. 10th, we wrote those people telling they you would agree to furnish goods in your Catalogue to them at 30 per cent discount, excepting Sockets, Cut-Outs, and Switchet, and on those as an extra inducement, we informed them, you would agree to give a discount of 32 per cent. We informed them that your charges for boxing and cartage on same, would be ottra. These proposals we extracted from a litter which you sent us, agreeing to furnish goods to the Swiss Company, in accordance with the above.

Very Truly Yours

Ja.E.

C. H. Cooke, Esq.

Cooke's Hotel,

Ann Arbor, lia ch:

We send you to-day a supply of convassing blanks, which we desire you to use in Tuthie when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how those reports should be made out.

For your further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when you canvass is completed, you should pin the four or more different

2

shoots show the four faces of each block, and then on a separate place of paper male an index of the entwess in the follow manner:-

1 11-2 3 3 3 4 4 4

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours truly.

Thomas A. Edison Constn. Dent.

ву СОГ

Englosuro

December 19th.

Charles P. Lyon, Esq.

New American Hotel.

Circloville, Ohio.

Dear Sir:-

In relation to your canvass of Wellsborough, Ponna, you give the number of lights burning in the hotels by stating that they will average so many for so many hours. We desire that you shall give detailed specification of each light burning in the hotels, as we desire to know how many lights burn in the office, halls, dining room, kitchen, bar, and also the togal number of rooms in the hotel, tegether with the actual number of hours each light burns in each separate room. This information we want in connection with every hall and building where there are any purticulars to be given. We do not want you to give the average, as we prefer to obtain that ourselves from detailed information. We shall also be glad if you will discontinue to name the street lamps, as they are of no interest to us and only cause confusion in your canvass.

When you begin entering you canvass on the sheets which will be sont you to-day, please pin the four block faces comprising one block tegether and them make an index as follows:- BLOCK. FAGES.

1 1-2
2 3

Please make any remarks in the "Remark Column" in black ink, oxcept for troos, which you had better make in red ink.

We trust you will pay particular attention to the instructions given you within, as any deviation from the rules we set forth will cause great confusion and dolay in our Map Department, which we particularly desire to avoid.

Yours truly,

Thomas A. Edison Constn. Dept.

By all

December 19th

T. H. Toall, Esq.

Syracuso, N. Y.

Doar Sir:-

Hy same mail we send you a map of Syracuse, N. Y., and in addition to supplying us with the information in accordance with the attached form, will you kindly look carefully ever the course of our conductors, as we propose running them, and let us know if there are any obstacles, such as high trees, telephone or telegraph poles, which would prevent our running along any point where the red lines are marked on the map.

In regard to a lot for contral station purposes, any kind of a lot whatever will do us as long as it is large enough, and which point will be deformined after you submit your report on options. As long as we can have run to but our plant in, it does not matter in the least whether the lot is on an alloy, and we would prefer a location which is not conspiduous as near the conter of the circle as possible.

In regard to those matters, please let us hear from you at the carliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept

Rur .

201

December 18th

3

G. W. Wilbur, Esq.

Post Office,

knoxville, Tonn,

Doar Sir:

In your canvass of Atlanta you have omitted to class on about one third of the dwellings. This appears to be a common occurrence with you, and we trust in future these deskils will not be overlooked, as they cause great confusion and necessitate our having to guess at information which should be reported to us by

Yours truly,

Thomas A. Edison Constn. Dopt.

I. C. Walker, Esq.

care Judge J. F. Bunn,

Toffin. Ohio.

Dear Sir:

We have your telegram stating that you will not be ready to leave tiffin until after tannary let., and in reply we bog to say that your statements are rather misleading.

We have a lotter from you dated the 12th, inst., in which you inform us that in your opinion at the present time it would be well to turn the work over to Messrs. Baxter's Brown.

If the present time is as good as any, we want you to turn the work over immediately and go to Hellerinte, Penna. It is our aim to keep you in one point as short a time as possible compatible with the efficient teaching of the lattice who are to perform the work after your departure. Please let us have an explanation as to how the matter really does stund.

In regard to your orders for material, inasmuch as we do not look to you for the payment of our bills, and as the material is ordered on account of the Tiffin Company, before we can supply it we must have an official order from an Officer of the said corporation.

We have written Judge Bunn in regard to the lamps he

.

December 19th.

dosires ment to Yiffin, and when we receive the proper authority for making the shipment, we will immediately have them forwarded.

Kindly lot us hear from you as soon as possible in rela-

Yours truly,

Thomas A. Edison Constn. hopt.

By (1.0 7

December 19th.

Wostorn Edison Light Co.

Chicago, Ills.

Doar Sirs:-

In relation to the attached correspondence, we are informed by Mr Mutchinson, the Secretary of the Isolated Company, that these meters are for you. They have apparently been consigned to the Edison Company, 104 Secret Street. We have received no communication from you as to what they are for or why the shipment was made, and we await further particulars.

Yours truly,

Thomas A. Edison Constn. Dopt.

1 1

Enclosure!d.

G. W. Wilber, Esq.

P. O. Knoxville, Tenn.

Doar Sir:

which we desire you to use in future when submitting your can-

When taking notes along the streets you may use a book, and during the day prepare these should be the which are to be sent on here. We also send you herewith a sample sheet showing how those reports should be made out.

For further information to will give you the following explanations -

The column on the canvass sheet marked "midth in Foot" means width of building. There buildings are isolated the distinct between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters is a is shown on the model canvass sheet: Every shoot must be minbored with the number of the block and the name of the treat; and, when your canvass is completed, you should pin the four or more different

shoots showing the for f aces of each block, and then on a separate piece of paper make an index of the canvass in the following manner:

1 1-2 2 3 4

If you nequire any further information in regard to this matter, let us know at once and we will send it on.

No wish to adopt this system at the nurliost possible moment, as it facilistates work in our Map Department, and, consequently, mayor money.

Yours Truly, Thomas A. Edison, Constn. Deb't.

Enclosure

Chief Elec. Engineer.

P. O. Box, 565 Fall River.

. Mass.

Doar Sir:-

Will you please let us know how the meters for newburg, Bellefonto, Piqua, Middletown, 11t. Carmel and Mazolton are to

be standardized, whether the "A" or the "B" meter, and oblige. Very Truly Yours,

Edison Haching Works.

C. E. Chinnock, Esq.

·257 Pearl Stroot, City

Doar Si

Could you very kindly send about 10 lbs. of sulphate of zinc to the Mdison Wlectric Illuminating Company, Fall Rivor, We ordered 300 lbs. of this from Mr. White, but up to this Mass. writing he has not supplied it, and we have had so much difficulty with bad material that we are afraid to send anything that we are not absolutely sure of. Mr. Edison is in Vall River at the present moment, and has telegraphed for this sulphate of zinc, and you would confer a very great favor upon us if you would express it Furthermore, if you could send on a couple of ounces of marine glue we should be deeply indebted. We have ordered some of this to be expressed from Messrs, Eimer & Amend, but inasmuch as a quantity which they sent to Lawrence sometime ago proved to be useloss, we wish if possible to guard against the same mishup at Fall River. We are making arrangements to have this gaue prepared' at the Testing Room.

We regret exceedingly to be obliged to trouble you, as we rear you will consider that we are imposing upon good nature, be but under the circumstances you are the only person to whom we can

December 20th. S

appeal to help us out of this trouble.

Yours vory truly,

Thomas A. Edison Constn. Dopt.

By D'MM

ويبية مربانج إيفظا أمريخ بجراب

Dec. 20th

M. C. Relknap, Esq. Sec.

dison Eloc. Ill. Co.

Nowburg, N. Y.

Doar Sir :-

We beg to ucknowledge with thanks your letter of the lost int., and wish you would be kind enough to notify us immediately the building has its roof completed.

Yery Truly Yours,

Thomas A. Edison, Constn. Dep't.

- 12

aos,

W. S. Andrews, Esq.

Door Sir:-

possiblio?

We send you helrowith blue print, of the Williamsport station. Ploase adviso us of electrical material as soon as

> Very Truly Yours, bras A. Edison, Constn. Dop't.

Dec. 20th. 3

W. D. Rich, Esq.

Helzelton, Pa-

Dear Sir:-

In ure to day in reseipt of a letter from the secortary of the Newburg Co., in which he states provided they have feverally weather, the walls will be up and ready for the roof timbers in sight days. We have requested these gentlemen to advise vs as soon as the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constn. Dop't.

1:y (

aoy

December 21st

Mossrs, Borgmann & Co.

202 Avenue B. City.

Dear Sirs:-

We are this morning in receipt of a letter from Mr. Edison dated Pall River, and in it he asks us to instruct ou to be sure that two lasps with wire in control of them go with such indicator you send out, also that two feet of 1000 patitions iridium wire go also with each indicator extra. Mr. Edison states further that three of the spirit levels on the pressure indicators you sent to Pall River have the bubbles so long that they are utterly useless, and he complains very bitterly of your neglect in not having this work inspected before it goes out; he also says that one of the new field regulators there has a wrong number of blocks.

Kindly give these matters your attention.

Thomas A. Edison Constn. Dept.

3v ...

aces

3

Doar Sir:-

We have your letter of the 20th, inst., in reference to advising you about shipments of material, and in future will see that you are promptly notified when any consignments are made. Yours truly,

Thomas A. Edison Constn. bDept.

December 21st

Mossrs, Waterhouse, Winterbotham & Harrison,

1. New Court, Carey Street,

lincolns lnn, W. C.

Jondon, England.

Dear Sirs:-

t have your lotter of the 4th, inst., tegether with instrument appointing Messrs. Theodore Waterhouse, William Howard Winterbothem and Richard Lake Marrison my Powers of Attermey.

I have signed same, had it duly attested by a Notary, and also had attached to it the contilicate of the English Consul General, and return the same by this mail, under separate cover.

Yours very truly,

Dar

December 24th.1883.

Gustav Soldan, Esq. Supt.

104 Guerck Stroot, Caty.

Doar Sir:-

In reply to your lotter of the 21st, inst. I bog to say that it is my opinion that you had better set a blower. Hav you not got one at the Works which will answer? We use a blower at the Pearl Street station,

I return herewith Manuscript Tetter to you.

Yours truly,

The Edison Hachine Works,

ВЗ

I a E

Enclosure, C!

Docomber 24th.1883.

Mossrs. Macpherson, Willard & Co.

Bordentown, N.J.

Doar Sirs:-

To have a lotter from our Superintendent, Mr. Soldan, in which he complains of the very slow mamner in which you deliver custings to the Machine Works. Could you not arrange to deliver these more promptly, as the non-receipt of them holds buck our central station work, and imposes upon us the necessity of carrying a lot of goods which we could otherwise dispose of.

Tours truly,

The Edison Machine Works,

y yas

December 24th.

Frank B. Rac, Esq.

eare Commercial Telegram Co.

18 Broadway, City.

Dear Sir:-

We have your letter of the lith, last, confirming your accortance of our effer of seventeen cents a pound for 1,000 lbs, of copper wire, which please be kind enough to ship to Thomas A. Edison, 202 Avenue B. City.

We will pay you ton conts per pound for couplings.

Yours truly,

Thomas A. Edison Constn. Dept.

B

60 J

W. D. Rich. Esq.

Bollefonte, Penna,

Dear Sir:-

We send you to-night under separate cover blue prints of Mt. Carmel, Hellefonte and Hazleton, which are to be used by the wiremen who have charge of the erection of the pole lines. All information necessary for these parties to have will be found attached to the charts.

Yours truly,

Thomas A. Edison Constn. Dept.

Decembor 24th.

. H. Pofinger, Esq. Prest.

Amorican District Tolograph Co.

How Orleans, Ja. "

Doar Sir:-

In regard to the map of New Orleans, soft you under sonarate cover this date, in addition to supplying us with the information in accordance with the attached form, will you kindly examine the course of our proposed street installation and let us know if there are any alterations in same which, in your opinion, it would be desirable to make, and very much oblige.

Very truly yours,

Thomas A. Edison Constn. Dept.

B

Enclosuro

December 24th.

Goorge D. Beryamin, Esq.

Dixon, Ills.

Doar Sir:-

I have your latter of the lith, inst, in reference to utilizing electricity for wood cutting, and in reply I beg to say that this experiments has several times been tried, but the idea has been abandoned, as the carbon of the wood rots the platina,

Very truly yours,

George H. Bliss, Esq.

Chicago, Ills.

Dear Sir:-

We have your letter of the leth, inst. in reference to an ampore indicator, and consider it advisable for you to use one, Mosors: Hergmann & Co. make them, and you should order one to show load and graduate it from zero to 275 amperes.

Doc. 24th,

Henry C. Mc. Cormick, Esq. Prost.

Williamsport, Penna.

Dear Sir:-

We have your latter of the 19th, inst. in reference to our map submitted to you by Dr. T. C. Detviler having been accepted as the skihibit "A" referred to in the contract between us. and we boff herowith to confirm our approval of same.

wardly to Point Street, northwardly to Fifth Street, westwardly to the Lines as running quatwardly to Point Street, northwardly to Fifth Street, westwardly
the hallow beginner Grace and Edwin Streets and parallel to
Gampbell and Malnut Streets, and southwardly along forst alley
south of Harkot Square from William Street to Academy Street.

In relation to this contract, we are still waiting to receive from you the first payment of twenty five per cent of the amount of the same, and which first payment is \$13,306.44. We have all our orders for material ready to send out, but until we receive the above emittance fromyou we will be unable to do anything in reagrd to forwarding the necessary material to commone week, inasmuch as we have to pay a certain percentage on the greater part of our orders attthe time they are submitted

Vory Truly Yours,

Guch Dept

1883-12-24

December 24th.

W. H. Dwelley, Jr. Esq. Treas

Fall River, Mass,

.

Doar Sir:-

I understand that the engineer allowed the wrist pin of the engine to get het and you had to shut down. This is pure carolossness, no matter what the engineer says.

ours truly,

Dan

H. H. Doubleday, Esq.

P. O. Box 565.

Fall River, Russ

Dear Sir:-

Can you tell us how soon witch will be through with the work he is doing at Mall River? As soon as he is prepared to lone lonve there, we should like him to come to some to New York, as we desire to secure his services in connection with other installations,

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ву

Docombor 24th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Dear Sir:-

We have your latter of the 20th, inst., and await the decision of the lique people in reference to the change of the pole lines at that place.

We have received a communication from an Shaw in regard to brick buildings for future estimates, and will comply with your wishes.

Yours truly.

Thomas A. Edison Constn. Dort.

...

William Schwenk, Esq.Prest.

"t. Carmel.

Doar Sir:-

Upon receipt of your letter of the lath, inst, we wrote to Mesers. Bergmann & Co. to hurry forward your material, and they replied to us that they would use the utmost despatch.

In regard to a wiring outert, our man will be there in the course of a week or two.

Yours truly,

Thomas A. Edison Constn. Dept.

:3

E. H. lord, Esq. Trons.

I awronco, bass.

Door Sir:-

We have your letter of the send, inst., and in rorly bor to say that the othere's machine was shipped to you on the luth, inst., and we wared you to that effect.

In regard to the belts you are using in lawrence, we well call you attention to the fact that we are using 10° belts in the mane connection at other places and they are giving perfect satisfaction. We therefore see no reason why they should not prove satisfactory at lawrence.

On the 15th, ingt, you asked us to supply you with two more 'm' dynamos, and they were shipped on the 32nd., for which we enclose bills of lading. Tou also asked us for another 142 x 13 engine, and this will be forwarded either to-morrow or the next day, also the bedplate and wishers?

We instructed years bergmann a Co. to send you some of the new indicators on the 17th, of the present menth, which was the earliest date we could listle such an order, on account of the appliances not having been completed until a few days prior to same. We regret that we have not sufficient control over Mesors. Borgmann & Co's affairs to insure sore prompt delivery of orders

placed with them on your account,

We are sorry you considered it necessary to write us in such a tone as that embodied in your communication of the 22nd.

inst., and we shall be obliged if, in future, you will kindly suppress any suggestions as to the sanagement of our affairs.

We are duing all we possibly can for you and we do not feel that you are justified in writing as fotters of this nature.

Vory traly yours, Thomas A. Edison Constn. Dept.

By Zale,

Enclosure, d.

New York, December 26th, 1863.

65 Fifth Avenue.

Samuel Insull, Jr., Esq.

2) Burton Croscent,

I-ondon, W. C. | England.

My Dear Insull :-

We have been daily expecting an autograph communication from you, but up to the propert them the only thing which has come to hand is a cablegram, from which we have ascertained that you are sojourning in Paris.

In relation to the letter think you wrote going down the May for Major Esten, I enclose herewith dopy of a communication we received from him in reply to the one you bent him. We have done nothing whatever in the matter and are helding it until you return.

The Pall River station was started very successfully on the lith. inst., and has been running very smoothly ever since.

Andrews and Conant wone to fiftin to dight to commonce werk there on the inside of the station. Mt.Carmel is ready to be wired, and Hellefonte and Mexicton will be ready on the 1st.

In my last letter I told you that the williams or contract had been closed, but that the street installation was under consideration. That Company have agreed to accept our map in accordance with the new canvass and last determination. This determination is a much cheaper one than the old one, notwithstanding the fact that we included about 2,000 feet more mains. The above Company have not yet paid the first instalment on account of their contract, but I am to-night in receipt of a tologram from them in which they state that the money has not all been paid in, but that they will send a check to-morrow or friday for a portion of it.

In-regard to finances, possibly a history of the way I had to "skin" through on Saturday last will interest you, When Mr. Edison left here on Tuesday he promised me he would be back Priday night. I have tried to impress him as much as possible with the necessity of being here to sign payroll checks, and he seemed to take it all in. I got three checks from him on the Cormania payable to my order, and feeling confident that he would roturn I disposed of two of them, in fact I had to dispose of these as the payments were necessary, one on account of the Machine Works and the other for bruesi, who is frightfully hard up. Saturday morning just about when I was expecting Mr. Edison to arrive and opening my mail you can imagine my horror upon receiving a note from him dated Fall River saying that the snap was booming, that he was going up to Haverhill to try and close that up and would not be back until Sunday. Thad about \$3,400. In the Germania I only had \$2,000. I had a check for \$1,500. for the Machine Works which I could not deposit, as I have no power in that connection with those works, and in the Bank of the Metropolis I had about \$1,000. I stood the shock with Christian Fortitude and bravely went for the mail again, where I came across a chock for \$1,000, sont most unexpectedly by Garrison in part paymont of the Brockton extras. This check was for Thomas A. Edison,

Sunbury, and wanted us to close a contract with them without having a cunvass made, and in fact without ever having before seen a representative of the Edison Electric light Company. The same thing is reported from Circleville, where the people say that they cannot wait for a canvass to be made and want us to go ahead and put the light in without it. You see that the "snap" is going to "boom" tremendously next year.

Wit Edison has gone up a posint and reached my figures, and is now firmly of the opinion that we will do \$3,000,000. worth of work guring 1884.

STATIONS. Tiffin stable is ready for the wirement to go to work on the inside, and indrews will have his men there in a few days. The pole lines are all completed, and Hibler goes to Hellofonte to put up the lines there immediately. The Mt. Carmel building is completed, and the machinery is being set. Bellofonte is in the same condition and the Hazleton building had the roof completed to-night. Nich his got a good man for pole line work at Mt. Carmel, and we will not be delayed in this matter at all the Middleton building is in the course of erection. You will remember, no doubt, that the about allowed for this building in the estimate was \$2,210., and the estimate at attend that it was to be a frame structure. When lich was here, on Sunday last, I discussed the point with him, and decided that on account of brick being so chasp at Middletown It would create a much botter impression if we were to erect a building of this material, and I

gave Rich instructions to this end.

I had a letter from Shaw asking us to put up a brick building at Piqua. The amount allowed in the estimate for this building was only \$1,350., and it was to be the same size as the Biddletown building. I wired Shaw that we would creek a brick building at Middletown, and that we would put up a brick building at Piqua for \$2,210., the same price as the former. To-night I have a telegram from him accepting the figures, and I have wired Rich accordingly. The foundations of this building are being put in at the present time, and Rich says that there is a good margin on these figures.

Major Eaton sont up a lotter from Mr. Hoffinger of Now Orleans, and the prospects of closing this contract are excellent. They have ever half the capital stock subscribed at the present time, and the affair is almost as good as settled.

St.louis, from Provision's report which the Major sent up to-day, looks a little "blue" again, but this will eventually go through.

The regard to the Danbury installation, you will recollect that this was one of the estimates which we made before we discovered that we were about five per cent out on our general expenses. The day after you left T asked Mr. Edison if it would not be a good idea to give Harris's Robinson six days to close out that business, and if they failed to do it in that time the ostimate was to become yord, and a freething substituted.

lie approved of the suggestion, and to-morrow the Danbury estimate gives up the ghost. - They had a meeting in Danbury last night, the result of which, in connection with the acceptance of our estimate, has not yet been communicated to this office, but I do not anticipate the acceptance of it. I hope you will endorse this action, us, in my opinion, we have been working for love long enough and are inking justified in taking the proper means to protect ourselves in the future.

Ecfore you return we will have all the plants now under way running, I think, without any exception.

Everything has gone along value a hitch since your departure.

The shorthand man you engaged has turned out to be of no use, and I have arranged to get additionan. I will have him properly broken in before you come yet. He is to come at the same figure as the man who leaves is setting.

I cannot at the moment shift of any other points of interest, but I will write you regularly now every few days, and keep you thoroughly posted as to what it going in.

kruesi came to me the other day and took me into a corner very confidentially. I hoticed that there were tours in his eyes and that he was very much egitated, and he asked me if I had ever been connected with any machine works, and upon informing him that I had, he wanted to know if patterns were regarded in a wallable asset!!!!!!

Trusting that you may have a very Morry Christman and Majpy New Year, which is sterectyped, but none the less sincerely, and also conveying the same wish from our friend Mr. Gilmore, who since you left has "kicked" like a mule against working on Sunday, bollove me to be.

cry truly yours,

Samuol Insull, Jr., Esq.

21 Burton Crescent

London, W. C. England.

December 20th

Sponeer Borden, Esq.

P. O. Box 3311.

Boston Kose

Doar Sir:-

I have your letter of the 24th, inst, in regard to Mr. Bancroft, and in reply beg to say that I have written to that gontleman complimenting him on the able manner in which he performed his work at North Adams.

Very truly yours,

December 20th.

Mossrs, Alden & Sterne,

2 Wost 14th, Street, City.

D 11000 24011, D0100

Door Sirs:-

In reply to your communication of the 20th, inst. I

bot to say that we had to find the lots to get up our specifica
tions. The company cannot de snything until the specifications
and plans are ready, and this will take about two menths.

Yory truly yours

Jan 1

W. S. Androws, Ess.

Tiffin, Ohio.

Dour Sir:-

We are in receipt of a lotter from Mr. Rich in which he says that the Ht. Carmol station is ready for wiring, and that Hazleton and Bellefonte will be in condition for your men on tho 1st. January.

You will have to make some pretty lively moves to take those all in on time.

Yours truly,

Thomas A. Edison Constn. Deut.

December 20th.

J. F. Runn, Esq. V. P

Tiffin, Chio.

DeareSir:-

We referred your letter of November 30th., in regard to
the paragon cable, to Br. Walker, and we have informed him that wher
wherever parties are willing to take the risk as regards the wire
being approved by the Underwriters it is all right to supply them
with it. The advantages afferded by the use of this cable make
it a much more desirable article than any other wire in practice
at the tresent time.

Very truly yours.

Thomas A. Edison Constn. Dept.

121

avy

December 26th.

W. L. Carrison, Esq. Troas.

P. C. Dox 3627.

Boston, Kass.

Dear Sir:-

In regard to a communication which we received from you some time ago in relation to a Gromwell heat Controller, we "referred the matter to our Superintendent, Mr. Rich, and in reply "he states that the day before he loft Fall River he received a let-"ter from the Gromwell bros. about the heat controller at brock-" ton, saying they were ready to take it out if it was not satis-"factory, and if it was satisfactory they desired to be paid for it. "Mr. Rich immediately wired Mr. Johks asking him if the heat controller had been tested, according to the agreement made with the Cromwell Bros., which agreement was to have the coal carefully waighed and they to fire the bubber one week and our engineer to fire it the next week, they to fire it the third week and our ongineer the fourth week! Then the figures were to be submitted to us and, if it appeared that they had saved five per cent over "the old style of damper, we were to take the controller and pay" the amount, otherwise they were to remove it at once and put the brick work in as good condition as it was prior to the introduction of the heat apparatus.

Er Jonks reglied that they had not weighed the coal, but that the engineer thought it saved fuel. He Pich considered that such a test would not justify the purchase of the apparatus, notwithstanding the opinion of the engineer, as he had heard there party may previously that he had a very foor opining of the damper, and stated that unless they could comply with the terms of the agreement he would not jurchase the heat controller.

If the Grounvoll Bros. still wish to fulfill the conditions of the contract, our Superintendent will receive their figures and give the matter due condideration.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Edison, T.A

December 20t

D. H. Burrell, Esq

Little Falls, N. Y

Doar Sir:-

I have your letter of the 21st. inst. in regard to separating cross from milk, and in reply beg to say that I have not forgotten the matter, and just as soon as I get my electric 1 light affairs in shape I am going to work up several industrial contemprises, of which this will be one,

Very truly yours,

Jah ")

December 20th.1883.

Gustav Soldan, Esq. Surt.

104 Goerek Street, City

Doar Sir:-

We enclose herewith a letter from Mr. Dwelley in reference to the Flint Mill installation.

Please have the smitch would and bolts he speaks of sont forward immediately, together with two hors tracks of uniform size to correspond with those of the other "N" machines. This installation is an important one, as we expect more orders, providing it is satisfactory, and we will you to pay particular attention to the statements and requests made by the Dwolley in this letter.

Yours truly,

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7

ThomasisonRHasbane Works,

Enclosuro.s.

December 26th

3

R. Rogers, Secty. Pro Tem,

The Edison-Gower-Bell Yelophone Co. of Europe, Itd.

london! E. C. England.

Doar Sir:-

I have your letter of the 7th, inst., and in reply beg to say that I have sont you this day by registered mail my Italian Tolophone Patent No. 9791, granted February 8th, 1878.

Please ad nowledge receipt and oblige,

Very truly yours,

Dan

Goorge W. Wilber, Esq.

Post Office,

Inexville, 70mm

Dear Sir:-

We have your lotter of the 23rd, inst., and in regard to the width or buildings we ben'to say that the red figures in the model canvass sheet sent you represented the distance between isolated buildings.

In relation to trees, please give the number on each block face, and if evenly distributed, say so, and if not evenly distributed, morely montion the fact without giving the distance between each the lack l, C.D. means wiret class healing.

After yoursend in your first ednyage in accordance with the new process, we will be able to tell exactly upon what points you are deficient, and you will be immediately advised as to where corrections should be made.

We note your remarks in regard to the difficulty you have in obtaining money by check, and in future we will oither send it by postal order or will telegraph it to you, waiving identification, which will obvinte all difficulties each time you arrive in a new town.

please wire us at once your hotel address. When you

wore in Mobile we had two or three tolegrams roturned to us with the statement that George W. Wilbor was unknown in that city.

Yours truly,

Thomas A. Edison Constn. Dept.

Ву

109

December 26th.

H Ward Joonard, Esq.

Layrence, Mass

Door Sir:-

In reply to your letter of the loth, inst., wherein you referred to printed answers to questions on meters \$e., kr. Salson states that he gave you a copy himself before the six copies were sent to Brockton. Mr. Edison states that he left Brockton before these latter copies arrived, and that he certainly gave you one and told you to mark your name in it. We wish you would make a thirough search for this, known, as it is very desirable that It should not fall into other hands than those of our electrical complexees.

Yours truly,

Thomas A. Edison Constn. Pept.

By Olly

December 20th.

W. L. Garrison, Esq. Treas.

P. O. Box 3027,

Hoston, Mass.

Dear Sir:-

We beg to acknowledge with thanks receipt of your latter of the 21st, inst, enclosing check for \$1,000, on account.

We communicated with Mr. Jonks to-day in ropard to the change you desire made at Brockton, specifying the material we propose to supply you with. Mr. Jonks will no doubt communicate with you on the subject.

Very truly yours,
Thomas A. Edison Constn. Dort.

Ву

alog

December 20th.

I. C. Walker, Ess.

Tiffin.

Doar Sir-

We have your letter of the 21st, inst., and in regard to the shirment of material in connection with the wiring of buildings if you intended Messrs. Baxter & brown to pay for the material which was shipped to Tiffin, you should have instructed them to sond us an order. We have no doubt that it would have been all right to ship the mater on your order, but we much prefer to have writton authority from the parties who have to bear the expense of the material, which avoids any discussion that might take place as to who is responsible for ordering it.

We are very anxious that you should leave Tiffin as soon as possible, but on the other hand do not desire you to go to any other point until you consider Messrs, Baxter & Frown theroughly competent to take full charge of the Tiffin work.

In regard to the new cable, where parties are willing to take the risk as regards insurance it is all right to supply them with it.

Yours truly, Thomas A. Edison Constn. Dout.

December 26th.

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Doar Sir;-

In regard to a communication we received from you some time since, wherein you state that when you fod your boilers with cold water the steam was so damp that it would not do more than war half duty although the pressure remained the same, and wherein you claimed that the trouble was in connection with the injector connected with the boiler, we referred these statements to our Superintendent, Mr. Rich, and in reply he says that it is impossible for any ingector to feed cold water into a boiler under a pressure of 190 heat, which is the lowest temperature, as indicated by the thermometer attached to the injector. He further states that the connection with the new boiler is made precisely at the same point as on the boiler which was first set, and that the real trouble is that the engineer carries the water too high in the stoum drum. If he would adjust the injector so as to gauge a constant food according to evaporation and not allow the water to rise above the second cock, you would find no cause for complaint. neither would there be any danger of bursting the cylinder heads or syphoning water from the boller. Mr. Rich says that he is confident this is the trouble at lawrence, as the same thing was met

with at Prociton with the first engineer we employed there.

Our Superintendent will visit lawrence shortly and explain these matters to you in person, and endeavor to adjust the difficulty of with at the present time.

Very truly yours,

Thomas A. Edison Constn. Dept.

W. J. Jenks. Esq. Managor,

Brockton. Mass.

Dear Sir:-

Replying to your letter of the 21st, inst., we beg to say that when we submitted our bid for the change at Brockton, amounting to \$1,290., it was our intention to undertake to do the work in connection with making this change, except as regards alterations to the engine. We should, however, profer you to do the work in connection with setting up the new machines, and beg to submit the following proposal:-

We will supply you with mutorial as below at the prices named:

TWO 200 III. It dynamos (10 candis ponsitions -	,
Two belts for samo	80.25
Two regulators for the above machines	115.00
Switches for same	13,60
Two double dynamo switches for changing circuits.	49.40

We will take back from you, one 800 light dynamo and one belt, allowing you \$1,400, for the former and \$30, for the latter

This will leave an amount to be paid us of \$552.01

Repairing 800 light machines.

December 20th.

You will do all work in connection with putting up those machines, pay expenses of boxing and shipping the machine and belt returned to us.

Floase let us know if this will be satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dopt.

В

LOY

becember 26th.

Charles P. Lyon, Esq

Post Office,

Pottsville, Penna,

Dear Sir:-

In roply to your lotter of the sind, inst., we beg to
say that we consider it advisable for you to obtain as much
information as possible in regard to real estate for sale in the
different towns you canvass. There are no regular report forms
calculated to embody this information, and you can send it to us in

Yours truly.

Thomas A. Edison Constn. Dept

iny 9101

December 20th.

Thomas F. Righter, Esq. Treas.

Ht. Carnol, Fenna.

Dear Sir:-

In roply to your letter of the 17th, inst., we bog to say that we will extend your lines from Fifth Street slong the alloy between Marle and Cal Streets to Sixth Street, in order to take in your bouse, without extra charge to your Company.

This concession will cost us about \$100, more than we have allowed for in our contract, but inammuch as you state Mr. Edison promised it, we will of course undertake to do the Work.

In regard to running along Sixth Street instead of Fifth Street, this change would alter our electrical determination and would render useless the greater part of the wire we have shipped to Mt.Carmol. Your house can be taken in by a service from the entrance on Sixth Street to the alley between Maple and Oak Streets It is impossible for us to made any other changes in this installation, and we trust you will be muticated with the alterations made in accordance with this lotter.

Ploase show this communication to be Schwenk, and toll
him that it answers his communication of the 17th. inst.

Very truly yours.

Thomas A. Edison Constn. Dept.

asy

December 20th. 3

John M. Stewart, Esq.

2096 Third Avenue, City

Dear Sir;-

In reply to your latter of the leth, inst., I shall be glad to have you call at this office as early as possible, bringing with you any latters of Yescommendation which you may have.

s truly,

Jak 1

December 20th

33

M. Y. Safety Steam Power Co.

30 Cortlandt Street, City.

Dear Sirc:-

July you please lot us know the price, together with our best possible discount, for your vertical engines cylinder 3 x 5, and designated in your catalogue of Hovesbor, 1883, as figure No.5. If we can make satisfactory arrangements with you in regard to prices we may adopt these engines in all our contral stations, and will probably be able to place large orders with

Very truly yours,

Thomas A. Edison Constn. Dopt.

В

acey

Dec. 27th,

W. H. Douty, Esq. Pros.

Shamokin, Penna.

Dear Sir:-

Refeering to the amount of \$2,000 which is still ou standing on our books against your Company, we should very much to know what your intentions are as regards the sottlement. You are no doubt aware that as Var as we are concerned the "Shamokin Installation, was fine neighly a heavy failure, and in "consideration of this fact, we are compelled to urgettou to make a speedy settlement of the balance now dog us. The dath of the bill which was made out to your | Company, specifying the materia. which had been supplied on account of the contract, is October 13th, andfrom that Aut we will charge you interest at the rate of 12 per cent per anum. We can assure you that hthis interest by no means compensates us for the less we are sustaining through the tardiness of your sompany. We turn our money so quickly that the principle yields much more by being in our hands, so that we can directly control it, than by being let out at any rate of interest, which it would appear reasonable to charge." We can assure you that it is as distasteful for us to have to remind you of this matter so often, as it is for you to re-

-

Doc. 27th

"coive our letters, at the same time we think that we are not being justly dealt with, when the affair is last dermant except at such times as it is brought directly to y are detention by letters from this Office.

for trust you will therefore send us a check for the full amount upon receipt of this lotter, together with 850.00 which is the interest from the date of your bills namely decober 13th, to the present time, and which is charged to you at the rate above mentioned.

Very Truly Yours,

rac

Shamolein

Dec. 27th

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Doar Sir:-

In relation to the 150 temporary fixtures which you returned from Shamekin, andfor which you desired us to give you credit, we beg to say that the amount charged you for these fixtures was 40 2 cents each. He shall therefore have pleasure in allowing you the same rate, as the fixtures are in order and we can use them elsewhere.

In November we wrote you a letter in regard to our acmigrount, and some errors which were made therein, in connection
with calculating the amount to be deducted for certain work which
was not performed. By referring to the said letter, you will
find that you credited your account with \$56.92 too much. The
amount which we will allow you for 150 fixtures is \$72.75, and aafter deducting the overcharge referred to we will one you

We wrote you to day in referrance to the balance still due on your contract, and asking you to send us a check for \$2,050. If you will therefore make this check for \$2,034.17 it will square our accounts.

Vory Truly Yours, 9 2 8

Docember 28th.

J. F. Kirby, Esq.

Essex liouse,

Salom, Yass.

Dear Sir:-

in reply to your letter of the Dith. inst., we bon to say that after you are through with the Jawrence company we can probably do semething for you.

Yours truly,

Thomas A. Edison Constn. Port.

R

Roy

Dogowhou 20st

John Hullen, Esq. Treas.

Shamolin, Penna.

Dear Sir:-

I have your letter of the 20th, inst., and in reply bon to say that I do not quite understand the meaning of it. I have no stock in the Shamekin company. There is a balance of \$2,000, due on our contract, and I have written an bouty in relation to it to-day.

Very truly yours.

mu

December 28th.

E. H. Lord, Esq. Treas.

Lawrence, Hass.

Doar Sir;-

In relation to your lotter of the lith, inst., wherein you asked us to supply you with two more "H" dynames and another 142 x luminging, which necessitated the bodplate and washers, we presume the dynames have been received in Laurence, the bodplate and washers were shipped jesterday and the engine is being louded to-day.

Will you be kind enough to sold us your check for \$1,277.50, which is twenty five per cent of the amount of this order, and which should be paid to us upon the reception of your requisition, in accordance with the terms of our agreement. The above amount is made up as follows:-

Will you not require some for offertical apparatus in connection with this addition to your station? Shall we get a list of what is necessary from our Electrical Engineer, Hr. Andrews, or well you send us a requisition for what you want?

Yours truly,

Decombor 28th. 3

W. S. Androws, Esq.

Tirfin. Ohio

Dear Sir-

We have received a telegram from the Secretary of the fiffin Company in relation to services, and in relay to same we told him that Mr. Conant would give all necessary explanations as to how the customers are to be cut in. We have forwarded the wire for this jurpose and if any other material is required wish you would be good enough to have the Company send us a requisition for it.

Yours truly,

Thomas A. Edison Constn. Pont.

.

MOY,

Docomber 25th.

li. Ward Joonard, Esq.

Lawrenco, Mass.

Doar Sire-

We have this morning received your letter of the 30hh, inst.

The No. 30 copper whre you speak of will be expressed to-day or to-morrow.

In relation to drawing upon us, we beg to inform you that this is a privilege which we very rarely extend to our on-ployees, and only in cases of absolute necessity do we allow them to make drafts on us for money. If you desire it we shall be glad to send you a check once a week for your salary and allowance, or at such intervals as you would prefer.

Mr. Andrews gave us a requisition for the material mentioned in your letter, and his request is having our attention.

Wo onclose herowith check to balance your account to

date.

Yours truly,

Thomas A. Edison Constn. Dept.

341

ap

W. I. Garrison, Esq. Treas.

B. O. Box 3627.

Boston. Hass.

Doar Sir:-

In accordance with your request we have pleasure in employing herewith a detailed statement of our account against you for \$1,170.42, which was the one you wanted us to itemize. If you have may counter charges, we wish you would be kind enough to send us a statement of them at the earliest possible moment, as it is our desire to close this matter out and obtain whatever balance may be due us, as we wish to use the money. In accordance with the statement sent you yo still owe us 5537.42

Vory truly yours,

Thomas A. Edison Constn. Dopt.

by A

Enclosure, b.

Docombor 28th.

James Harris, Esq. Secty.

Ballefonte, Penna.

Dear Sir:-

We have received your telegram of yesterday's date in regard to the millefente street installation, and in which you state that the wires do not extend to link a Curtin Structs, as acroed with Mr. Shaw.

In reply we beg to say that we know nothing of Mr. Shaw's statements in connection with this matter. On the 2nd. November we sent Mr. Shaw a letter enclosing an estimate for the erection of an Edison Electric light Central Station Plant of 300 lights especity and amounting to \$14,701.00, together with the forms of Auroment, map showing the proposed course of our designators and plan of the general arrangement of the station we proposed creeting we called Mr. Shaw's attention to the fact that there were UAS lights covered by our wires. The next day we get a tolegram from Mr. Shaw asking what it would cost to increase this plant to 400 lights, and on November 5th, we wired him that to make a Hell's efente estimate for 800 lights capacity, instead of 500 lights capacity, would increase the figures sent him on the 2nd; November by \$2,310. This brought the amount of our estimate up to

\$17,071.60 Your Company made some few deductions in the minor details of the estimate, which reduced it to \$16,557.27

You will soo from this that the subject of the change in the street installation was not breached at all, and that the increased caracity of the station was made in view of the fact that there were BAS lights in the district, and that it would be advisable to take them all in.

We will send you to sorrow our figures for making the extension you desire, and if they are accepted we will have the material sent forward figurediately.

Vory truly yours,

Thomas A. Edison Constn. Dont.

By

Tale 1

Dogombor 28th.

W. H. Owelloy, JrEsq. Treas.

Fall Rivor, Mass

Doar Sir:-

We beg to acknowledge with many thanks receipt of your check for \$4,000. on account of the Fall River installation, and in reply to your letter under same cover, in which you say you had made the third payment, we would state that at the time the station was ready to supply light there was an assumt of \$2,014.45 on account of the third payment due us, which was made up in the following manner:-

Ton per cont of the amount of our contract, namely, \$4,160.60, was jaid upon the signing of the agreement; twenty per cont, namely, \$8,381.00, was to have been made on October 25th.; and twenty five per cent, namely, \$10,452,47, was to have been paid when the installation was ready to supply light. These payments aggregate \$22,995,43

The amounts received from you are, as stated in your letter, \$4,186.00, \$0,000, and \$0,366., making a total of \$20,000.go.
This loft a balance of \$2,314.43, which we mentioned above as being due us last week and it was this amount we had reference to when you telegraphed you.

We are very much obliged for the check you sent us and

have given you credit for same,

We return herewith receipt.

Very truly yours,

Thomas A. Edison Constn. Dept.

By (In

Enclosure, a

Documbor 20th,

R. G. Acheson, Esq.

13 East Stroot,

Red Jion Square,

london, W. C. England.

Doar Sir:-

In reply to your letter of the 18th, inst., to hand today, I beg to say that we can give you a situation, but cannot at
the moment say definitely what it will be, and if you come over
it will be necessary for you to take whatever turns up.

Very truly yours,

pac

December 20th.

E. B. Hubbard, Esq. Secty.

Tiffin, Ohio.

Dear Sir:-

We have received your fologram of the 25th, inst.

regarding the cervice wire, and in reply beg to say that Mr. Conant
will give all explanations in relation to cutting in customers and
the running of service wires, material for which purpose has been
forwarded to Tiffin.

Very truly yours, Thomas A. Edison Constn. Dopt.

Ey aray

Denomber 28.4h

W. D. Rich, Esq.

Hellefonto, Ponna,

Door Sire-

In relation to the may sent you showing the course or the hole lines at Mt. Carmel, we beg to say that we have agreed to extend our line on Fear Alley from Fifth Street to Sixth Street. It will necessitate about four more poles and we have ordered forward the additional wire. We send you another map showing the extension referred to.

Yours truly,

Thomas A. Edipon Constn. Dojt.

7 1

Enclosuro

December 28th.

W. D. Rich, Esq.

Bellefonte, Penna

Doar Sir:-

In reply to your letter of the &snd. Inst., wherein you make a sketch of the kellerente building, we beg to say that your arrangement is the only one which, under the circumstances, will alter our plans to conform therewith.

Yours truly,

Thomas A. Edison Constn. Dent.

D-

acy

Docomber 28th.

Sidney B. Paine, Esq.

P. O. Box 3311,

Boston, Mass

Doar Sir:-

In reply to your latter of the 27th, inst., we beg to say that an 800 to 1200 light plant, pole line, varios from \$2.1, to \$2.0, per light. This cost includes the running of the station for thirty days at our expense after same is ready to supply light. The machines which we would ded in connection with a 1200 light plant would be two "Y dynamos, which give \$000 ten candle power lamps each, and one \$2.x 12 origine. You of course understand that it is difficult to approximate the cost of any plant, as there are such a variety of directions which cause the amount

Very truly yours,

Thomas A. Rdlson Constn. Dept.

... (Q.D)

Describer 20th

A. Stuart, Esq. Socty.

Gincinnati, Ohio

Doar Sir:-

We beg to inform you that we are still awaiting information in connection with real estate for limb and Washington C. E., Ohio, Cynthians and Maysville, My, and Canton and Chillicothe, Ohio.

Yours truly,

Thomas Af Edison Constn. Dept.

By AND

Decembe. 30....

Societe d'Appareillage Electrique,

Geneva, Switzerland,

Dear Sirs:-

Your letter of the 27th. October has remained unanswered until the present time in order that some new types of dynamos which I had under course of construction might be finished. This work has now been completed, and I have the pleasure to enclose herewith the report of our Mr Clark, who is the Engineer of the Edison Electric Light Company, and which report will answer all the queries contained in your communication referred to.

The price of the new 200 light dynamo is \$725., F. O. E. New York, with regular winding, for higher volts probably be \$75., more each.

Trusting that this information will not arrive too late to be of service to you, I beg to remain,

Very Truly Yours,

Enclosure, i.

708

G5 Fifth Avenuo,

New York, Docember 20th, 1883.

Samuol Insull, Jr., Esq.

21 Burton Croscent,

Iondon, W. C. England.

liv Door Trism11:-

In my letter of last evening I mentioned to you that we had a list of the stockholders in the Williamsport Co... and that we were soing through Bradstreets to ascertain their standing. None of them are quoted. Shaw and young Detwiler word in here yesterday and told us that they were all professional men and were not given a rating. We find that P. B. Shaw, Dr. Detwiler and young betwiler hold about one third of the stock. We are going to send Russell to Williamsport to find out all about this business, which looks very "fishy." They have not yet, as I stated in my letter, paid in my the first instalment, and in our opingon we think the intention of this Company is to spanpe together twenty five per cont of the amount of our contract. after which nothing will be due us until the installation is ready to supply light. Upon our getting this far in the matter they imagine it will be impossible for us to withdraw, and they can make us carry it until they dispose of the large amount of stock held by the above mentioned trio. None of these three luminatios have one dollar to rub against another, and I think we are justified in drawing these conclusions in connection with their intentions. We have not sant out a single order yet, nor do we intend to until the matter has been thoroughly investigated and we feel perfectly satisfied that our mondy will be forthcoming when it isdue.

Vory truly yours,

December 25th.

A. A. Cowles, Esq. Sucty.

Ansonia brass & Copper Co.

lo Cliff Street, City.

Doar Sir;-

Allow us to introduce to you Mr. C. F. Manington, who was formerly one of the partners in our late wiring Department,

Very truly yours,

Thomas A. Edison Constn. Dept.

ėv

Decomber 31st.

3

A. S. Hissell, Esq.

2413 Brairie Avenue,

Chicago, Ills.

Doar Sir:-

We have your letter of the 20th inst., and in reply to your Par.1, Q.1. best to say that we are daily expecting an answer from Mr. Shaw in regard to your assisting him in Penna.

In relation to your P.2., we beg to say that the canvass of linexylle has been completed, and we expect to receive it to-

Very truly yours.

Thomas A. Edison Constn. Dopt.

Ву

avy

ocember Sist. 3

W. D. Rich, Esq.

Bollofonte, Penna,

Door Sir:-

In reply to your letter of the Ath, inst., in relation to the injector at Tiffin, we beg to say that we have discontinued the use of exhaust injectors, and have adopted the "lorting" injector.

Wo will send you a supply of instruction cards, which you can distribute as you see fit.

Very truly yours,

Thomas A. Edison Constr. Dort.

ŀ

December 31st, 1883,

George H. Bliss, Esq. Gen'l. Supt.

Chicago, 111s.

Doar Sir:-

In roply to your letter of the 23nd inst., in which you state that you were furnished with "t" brushes with "0" dynamos, we box to say that we use "F" brushes in the old style brushholders of the 25 and 36 light machines. We recently changed the brushholders on these machines and used "H" brushes in connection with them. It is now our intention to use double brushes on all machines.

When the dynamos you speak of were tested at our Works we had no trouble with the brushes or brushholders in question.

Very truly yours,

The Edison Hachine Works,

1

December 31st.

W. H. Dwalloy, Jr. Esq. Treas.

Pall River, Hass.

Dear Sir:-

In relation to exchanging the u¹2 x 10 engine at Pall River for a u¹2 x 12, we beg to say that we will supply you with material and labor as follows:-

Total...... 1,235.71

7ctal..... 888.08

This makes the cost to you of the above change \$347.63; but in addition to this amount we shall ask you to pay the salary, expenses and railway fare of our man, whom it will be necessary to send to Pall River to do the work.

Will you kindly let us know if this will be satisfactory

2

at the earliest possible moment, Armington & Sims having a great many orders booked, and we may have trouble in getting the $0^{1/2} \times 12$ engine promptly, and the scener we get our order in the better.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Titre

July!

December 31st. 3

Winfield S. Hutchinson, Esq.

53 Dovonshire Street,

Roston, Mass.

Doar Sir:-

I have your latter of the 20th, inst, in relation to powers of attorney for Wn Jose D. Nusbands, and herewith I beg to enclose these decuments properly executed.

kindly acknowledge receipt and oblive,

Day

Docomber 31st. 1883.

J. S. & M. Pockham

Utica. H.Y.

Door Sirs:-

In relation to mica, we beg to say that we sent the samples your an Pockham left at this office to the Superintendent of our Works, and had his weigh them, after which he cut them into sizes that he could use and weighed them again, so as to ascortain the cost of the mica to us properly cut. The result of the experiment has been that 3b centa per pound is too high a price for us to pay for mica, such as the sample sent us.

Very truly yours,

The Edison Machine Works.

Ву

Jaky

Gustay Soldan, Esq. Supt.

104 Goorek Street, City.

Dear Sir:-

In relation to paper pulleys, do you not think it would be a good idea for us to adopt them in future?

Yours truly,

The Edison Machine Works,

By a a ass

P. B. Shaw, Esq.

Williamsport, Penna

Dear Sir:-

Mr. A. S. Fiscell, who has lately been in Knoxville working up the interests of the Edison light at that point, requested us to write to you and ask you if he could in any way assist you with your work in Pennsylvania. We do not know whether you are assuminted with this gentleman or not, but if you desire any information in regard to him and his capabilities, no doubt him leastings could give it to you.

Awaiting your roply, which Mr kissell requests us to transmit to him, we are,

Very truly yours,

Thomas A. Edison Constn. Dept.

Trans

Milesty Schwonk, Esq. I rest.

Lt. Carmel, lenna.

Doar Sir:-

In reply to your letter of the 2bth, inst., we been to say that we will have our wireman at kt.Cornel at the earliest possible moment. We have had to start so many stations all at once, and as expert help of this character is security to the same of the same

We wrote to keenrs. Perghann & Co., asking them to hurry your material.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Н

James Barris, Esq. Secty.

Bollofonte, | Ionna.

Doar Sir:-

We have your letter of the Seth. list., in which you state that there seems to be a misunderstanding in regard to what you are to receive under agreement for an boo light plant.

In reply to your letter, we beg to enclose herewith wx cories of the 500 and 800 light estimates. You will notice that in each case the amount for the street installation is exactly the same, namely, \$4,056.15, and the map showing the course of our street installation which was submitted with the 300 light estimate is exactly the same as the one submitted with the 800 light estimato. You will observe that the district in each case covers EAS lights, and we prosumed that it was in order to take in all those lights that you requested us to submit an 800 light estimate, instead of a 500 light. The amount of the 500 light estimate is \$14.761.60; the emount we charged you for increasing the capacity of your plant to bor lights, instead of 500 lights, was \$2,310. This brought the amount of the 800 light estimate up to \$17,071,60, but your Company deducted some of the smaller supplies, which they proferred purphasing themselves, which reduced the amount of the estimate to \$16,567.27

We are at a less to understand your statement that your Company have never seen a copy of our 800 light estimate.

In Shaw was given this estimate, and after the Fellerente Company had made those deductions in the minor details, of which we have speken, he had the estimate typowritten and returned to us, and we have this copy in the office.

The amount of the increase was for changes in the boiler, ongine and dynamos, which all had to be of larger capacity, also for a larger building.

In connection with this building, after our contract was closed you desired it made larger still, and allowed us \$200. for extending it. This makes the amount of our contract with you \$10,707.27

We trust that as far as we are concerned this explana-

Vory truly yours,

Thomas A. Edison Constn. Dept.

Hur

Enclosure, c.

December 31st.1883.

Gustav Soldan, Esq. Supt.

104 Guerck Street, City.

Dear Sirt-

We have your lotter of the with, inst. reporting test n

What I want to ascertain is the non-sparking point sharply defined? With same asperse is the position of non-sparking point the same and does the brush have to be adjusted finer to obtain non-sparking point?

Also please let me know if the new iron gives higher

fours truly,

Charles P. Ivon. Esc.

Post Office,

Pettsville, Fenna,

Door Sir:-

In relation to your canvasses, in future when mentioning tonement houses, will you please simply state "tonement" and not "class thom as second, third or fourth. Please do not take any notice on your canvass of fourth class houses, and also be kind onough not to abbreviate your canvass and call a restaurant or bar "R", but write out in full what it is, and very much oblige,

Yours truly.

Thomas A. Edibin Constn. Dopt.

Documber 31st.

Messrs, Earlie & Hall,

33 Congress Street, W

Dotroit, Mich.

Doar Sirs:-

aware that there is a building on it. We should like to have a carefully figured statch or drawing or this building, showing the exact size incide, also showing

tion of columns or interior wills, if there are any, also size of floor beams and dustance from contro to contro of same. Are side walls and coilings plastored or sheathed with boards?

Wo would beg to call your earnest attention to the fact that this information must be very accurate, and we should like the plan made on as large a scale as possible. Immediately on receipt of this data we will forward you the Yesilanti estimate, all matters in connection with which must remain in abeyance until we

hear from you.

Very truly yours, Thomas A. Edison Constn. Dept. Referring to your memo of this date about Shampkiffall I can say is that Armington & Simsuman makes the assertion
that the piece of the regulator which was reversed was put on my a
fiveal equineer, before he arrived there. This is denied by the
man who is supposed to have done the work before Armington & Simsman arrived a Shambkin. Now although theyminates that they were
mot st fault. I see no reason to doubt Armington & Sims man, nor
do I see may reason particularly to doubt the local people, except
that we man plue makes a mistake usually tries to cover it up and
the assumption is that the man that Armington & Sims wells sent
to Shambkin woult know semesthing about fixing up the regulator
off their ongines, whereas the exployee of a local machine shop
would in all probability know nothing about fixing up such and

S. Ineulli

By. H.

1883. Edison, T.A. - Suppliers (D-83-017)

This folder contains correspondence and other documents relating to suppliers of equipment and materials for Edison and his companies. Many of the documents deal contained for the construction of central stations by the Thomas A. Edison Construction performent. The items filmed contain significant Edison marginalia or provide significant information about the equipment or materials being purchased.

Approximately 10 percent of the documents have been filmed. Routine correspondence has not been filmed.



NEW YORK CITY :--

585.5255....

DEAR SIR !

TWO YEARS AGO WE BUILT FROM PLANS OF CAPTAIN ERICSSON A STEAM ENGINE WHICH HAS PERFECT TO A DYNAMO AND ECTRIC LIGHTS, THE ENGINE BEING CONNECTED DIRECT TO A DYNAMO AND MAKING ABOUT 900 REVOLUTIONS PER MINUTE. IT HAS WORKED SO, WELL THAT CAPT. ERICSSON HAS THOUGHT BEST FOR US TO BUILD ANOTHER MACHINE, ADDING SUCH IMPROVEMENTS AS MAY HAVE SUGGESTED THEMSELVES BY THE USE OF THIS FIRST ONE. THE SECOND MACHINE IS NOW FINISHED AND RUNNING AND CAPT. ERICSSON, AS WELL AS OURSELVES, IS ANXIOUS TO HAVE THIS MACHINE TO LIGHT A PORTION OF OUR OWN WORKS AND BEALISVE IT TO BE ADMIRABLY ADAPTED FOR THAT PURPOSE. WE THINK YOU WILL FEEL A VERY GREAT INTEREST IN IT WHEN YOU SEE IT RUN, THE REGULATION AND LUBRICATION BEING ABSOLUTELY PERFECT.

Please address ALL business communications to C. H. DELAMATER & CO.



WRITES THIS LETTER, HOPING THAT YOU WILL GRANT AN INTERVIEW AT YOUR ONE CONVENIENCE AT YOUR PLACE WITH OUR MR. REYNOLDS WHO WILL EXPLAIN TO YOU WHAT IS REQUIRED IN ORDER TO ATTACH ONE OF YOUR MACCHINES TO THIS ENGINE,

SHOPING TO THE ARVERON YOU SOON WE TARE

YOURS RESPECTFULLY,

C. H. DE LANATER & CO.

The second of th

The state of the s

Please address ALL business communications to C. H. DELAMATER & CO.

Mestern Clectric Company, New Pork. ilit Tachino metrawent Causedand Lave Ester Elierie Co. ielly frie from non &

BALL ENGINE COMPANY Automatic Cut-Off ENGINES. Co but without the question of the superiority Engine for Cheetine hydring, state our Coar Sniflyquestion of begulation on as absolutely hold an Engine to Stand involve full Changes of load as the world more Prom valor is far Superior to way your Automatic Engine wir. He give the Righest attainable Economy of an Engine Coloste of ling Continue Mone Laving the most infront system of lubrication. Me have Eagure at the Poster fair , of it

BALL ENGINE COMPANY. Automatic Cut-Off ENGINES. you toget better beaute Engin Such as we described m will make the following proposition settle is not could you la draw in is for the Effection befor Eletive Engine of the Electure Or as a Respectively Yours Mickely

ErieGa/ ON 171883 Thos a Edison Tog how long you would like 65 Figeh Car to test other augue. ourmorth N.4. Car You may expect the following Dear for torsulto Hoow our edgine The thank you which houles in always your prompt reply to our guarantus. I st Chirply an Exaction of Eletter and beg to say Ethat your suggestion is regulation that us other Entirely satisfactory to us, sigstem of governing can (possibly goda de soon as du rugine and In the matter of fuel year be spared me shall be Economy as good tasulto as Iglad to send you a 9x12 any enfine can give, speeded to 300 revolutions for you to test at your with, Our standard pully or this engine in 40°, Will 30 and engine of very superior design + Juish and Extremely sulply in construction ac this suit four nquireunts. a risult of which the Engine is capable of long continuous If not please state what runs. as an evidence of six will. Please state also

ANUTATURES OF THE MALL COLUMN STATES OF THE

The probability of our down

you to the Boston Fair where the superior proformance

of our angue is admitted by all. Blean notice the

Ornerican machinest of this week which speake of the results obtained by our

the could give you very flattering itestamountals

but me rafrain from doing to as me know you mant the practical alumnstration

ander your own superorsion. In considering the good founds of our engine me

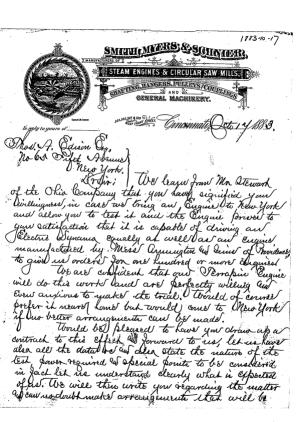
points of our engine me hope you will not vorslook

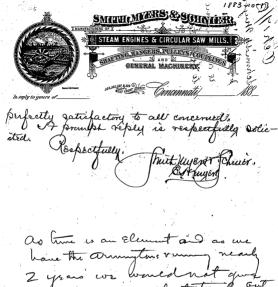
the valve which has that maring surfaces taking up its own mar which is extantly a vary much batter

value than a pixton value particularly so when considering the question of long life of the argue. We shall be

glad to thear from you ut your carbinet consumer.

Your Truly Ball Engine C





orker for 100 an ohart trial out we will put up an Engue at Court Sheet works a feet the barrie 2 or 3 months of Satisfied buy a large lot of Enguer buy to large to the four than = they pay freight step for buy to buy the large of

1×18 800 ro Och 1/B AGN 100 Schmids Muyer Walter 100 rean engine

1883.10-31

BECKER & SONS,

Street, Now York, Och 31 st 1883

.....188...

Dear Sir.



DALL ENGINE COMPANY

Automatic Gut-Off Engines,

GOVERNOR WEIGHS THE LOAD.

Those a . Edison En Whunderson 65 Efet arm Smatted her for

In reply to your bound to Dear Vir. we will ask you whether after a less satisfied that are engine power them now in use we may hope for ton with you or whether your present posters proclude the probability a persite lighty of the sort. You understand that we don't care to inew the expense of a test spency to-Rolify curiosity a be consince, you of a fact if there is no probablity of its reculting in hesinen. In our last letter we gave you any idea of what we explicit to demondente 4- ym. you afeat of a 91/2 x12 which Rize we do not build but would send you 9 K12. In regard 6- pulley you speak of a 56" pullay. He have no pater of that size I have now had an order requiring it.

BALL ENGINE CO., EIR, Pr. New 6 1883 To Then a Edin We have 40" , 44" or would proper to are one of chees rather than mate a new pattern for which we might have no puther we after this text. Could it not be awanged with counter shape In the purposer of the text. In regard to the expenses of these we suffine you will conduct the lest if we deliver the singuise in your slip a set it up for you. are ar right about this a if as will them to any ununal expense attending the placing of engue where you can use it. We are my desirous of giving you this demandiation of you went It. Having gone Atmugh Runilar lists on presion occasione we know put what the result will be & you may be once your dynamo will make. absolutely the same number of undaline when doing it work as when running emply. awaiting you this wifely we are you Very Tomey Ball Engan C

FIN-Bale Fr

ENGINE COMPANY Automatic Gut-Off Engines, Edism mel faythe Vietal statement of our patent Carryer in refrence to the question Do you infringe on armeny his voins, His answer is "m are for for but we will got a well go Elatorally into we lave the only potents Every the principle the mill furnish this information as from as weed Respect Your Walk Sugar

1883-11-02 BECKER & SONS, AND WEIGHTS OF PRECISION.

WALLEY IRON WORKS,
Manufacturing Founders & Machinists,
33-43 West Street

WILLIAMSPORT, PENNA. NOV 26'

Mus Chain Chetrie sufglo,

Wences was desmit Retrograph of our limit eni. This we have designe Livith a ruin to Goods. Shul & canony. we have made a thorough feet under a herlech Salato mithout the slighest hereit in Stone lituri Theration and the mon compact roest Luciand Exame now in the wartet, (we have not as yet placed their Engine in the market but purposer deing so very shortly was have Sweral 10x12 non underway. Which will shorten workars concluded to be away with are heliched was Enquir as plain as pession bress that has Ah" both Joy Bettom, Gude are struct from complete lines makin impersible (should Enquire get rat of Sine) to interes any of the woon harts, as loves head will immediatly adjust itself allowing Which Pin Cotes to do the same, we have not slight it in any respect + claim we have as fine an Engu

1883-11-26 Steam Engines, Boilers and Saw Mill Machinery of every Description. VALLEY IRON WORKS Manufacturing Founders & Machinists, 33--43 West Street. WILLIAMSPORT, PENNA. the herkess as there is anywhere manufactured, if should like to sand you one of their no trial. if it proves satisfactory you to retain it. Inch satisfactory it to be returned at our expense, was hurbers manufacturing in sizes to suit the demand wer can offer you this Engine at 4 the less wife, if you will addressed to sent fra The under these terme please girl as length of shaft you refuire & white arm with Quilor Clerk on englof that. Ither forme are not agreeably please suggest some at we dearing you to tryit. Sindly farm we with repla meramuch eshias Ven Richelfully your MCCaleysdeept,

INDIAN MERICAN PAPER PULLEY."
INDIAN APOLIS, IND. Dear 45/883 As I am about Organizing a Company to manfinfaction The faperfully an a large scale Hom statement as Que of your maglion to the advantages the fully trial the paper fully is possesses for Electical a new montion and machinery would be of where it has been tested great benefit . Your me. has Commanded the fullest Chanical Superintendent andorsement by mechanical who has been using the Seymer. It hold the best Julley aught- to be oble from Sliffingal great to the to give the information and Cubber Covered Pully, 21which to base Juck ofmion is 1/3ª lighter than the Cart I take the liberty of addressing crow fully and in The you person ally on the Lug Sinting advantage of gettion yello Taylor whome Down fully 25 percent, I lim aiding his the organing is in the organing at Jower over theordinary Cast work

this foint for affait of Hoping to here from you down as to the adventage, of the paper fully which fun home had in use I lemain July Committee of Martindole

1883-12-04

Martindale's

PATENT PAPER PULLEYS,

MANUFACTURED ONLY BY



American Paper Pulley Co.

4 and 1.6 S. Pennsylvania St.,

INDIANAPOLIS, IND.

DEALERS IN

SHAFTING, HANGERS AND BELTING

American Paper Pulley Co.

MANUFACTURERS OF

Paper Pulleys, Wooden Pulleys,

AND

Paper Disc Wrought-Iron Rim Pulleys, Wood Disc Wrought-Iron Rim Pulleys,

AND

Friction Pulleys.

Our Pulleys are stronger, lighter and cheaper than Cast-Iron Pulleys and are infinitely superior and preferable to any Pulley manufactured.

Our product fully covered by Letters Paten 117 Unite States and Foreign Countries

No more broken Pulleys to sell for scrap, or poorly balanced Pulleys to rack your line or counter shaft. PRICE-LIST

PAPER PULLEYS.

Bored, Turned and Balanced, with Set-Srews.

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Write for Discounts. Special Discount to Dealers.

INSTRUUTIONS FOR OIDSHING Give diameter, width of hoo, size of hore, an each driving the real of the state. Tight and loose pulleys should be crewning face, and the hard Fally furnished with type set access.

A Long Pull(ey), a S' ong Pull(ey) and a Pull(ey) altogether.

WE CLAIM THE FOLLOWING ADVANTAGES OVER ANY OTHER PULLEYS

THEY ARE STRONGER and consequently more durable:

1. In the absence of shrinkage strains, to which cast pulleys are sub-

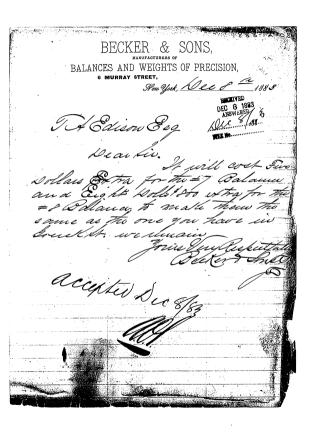
2. The discs or centers being solid, there are no weak or yielding spaces as in a pulley having arms supporting the rims.

3. The rims are not fragile and easily/broken as in cas

THEY ARE LIGHTER one-third to one-half, than other, pulleys, and can be run with safety at higher speed, transmitting the same power with lighter shafting and hangers.

THEY ARE CHEAPER. From the saving in cost of Belts, Shafting and Hangers; there is no danger of breaking in handling, there being a direct loss in this way in Gast. Fron Pulley. A support of the saving of the control of the saving of the control of the saving of the Wrought Fron Stim. Pulley, and outrolly overcome by the use of the Wrought Fron Stim. Pulley, and outrolly overcome, by the nine of the Price Fron Pulley, the belt adhering to wrought Gron Pulley. The belt adhering to wrought Gron Pulley. The belt adhering to wrought Gron Pulley. The

Our Pulleys are designed for any and all classes of work, but especially recommend themselves to mill furnishers, millers, wood workers and machinists. They are not affected by heat or moisture, but should not be used for out door work, where exposed to the weather, inless well painted it, least one a view.







KEEP IN STOCK ONLY OIL, SPINDER BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE SMITH & SON, J. & RECYD, AND TAYLOR WORDSWORTH & CO.

Phoston Mass December 1

Mr. Thomas A. Edison.

Construction Dept. .

Total have to bate

Dear Sir:--

In reply to your esteemed favor of 8th inst supply you with the Harding's speed Indicators in quantity at \$29 net, (our price to sell them single is much higher). could also supply them to you nickle plated, which would cost \$2. more.

We regret that we have no illustrated catalogue, as we should be very happy to forward one to you.

be most hopey to receive your orders, which by cable to insure a speedy delivery



KEEP IN STOCK OLIVE DIL SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE; SMITH & SON, J. & T; BOYD, AND, TAYLOR, WORDSWORTH; & CO.

Roston Mass Deember 13,

D. HATTERSLEY & DOX

Mr. Thomas A. Edison, Constn. Dept.

New York.

Dear Sir:-

SOLE AGENTS FOR PRINCE, SMITH & SO

WHITE A SONS

We have your favor of yesterday, and regret that we have only a few days ago parted with the last Speed Indicators we had in stock, and it may be a few weeks before we can have a fresh supply.

Just 12 months ago we sent six of these machines to the "Edison Light Company", and you may be able to see one or the other in New York.

Yours respectfully,

102 John St. Then Hoch Decl 14 th 1883

Mr. Thos. a. Edison, Construction Department, 65-5th ave. Dear Dir

Your favor of the 12 th mak is received. I have already an order given me personally by Mr. Codion for 500 lbs Dulphate Jene to be free from Jon. Do I understand that you would like a pample before the lot is made. Kindly explain or oblige - Yours truly behave I. White

fu.m.m.

ton from Powers & Weighlman However Gend sample a 500 Us to Talliam Care Regnam



Stoddard, Lovering & Co.

TEXTILE MACHINERY
COTTON AND MOHAIR YARNS, WOOL ETC:

KEEP IN STOCK OLLYE OIL, SPUNDLE BANDS, COMBING PINS, APRON, LEATHER, AND DUPLICATE.
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & TBOYD, AND TRYLOR, WORDSWORTH & CO.

OLL APENTO
ORATERRELY A SPEE
TANKY COMB.
ELRAWH HITLE SORE,
TANKY LOWN.
ELRAWH HITLE SORE,
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FREEN SITIES,
TREFFEES.

Boston, Mass December 19, 1883 3

Mr. Thomas A. Edison.

Construction Dept.,

Dear Sir:--

We just received your telegram inquiring time of his in which we could deliver Indicators.

As we could only guess at it, we have preferred to inquire inquire by cable how soon we could consupon the shipment of it, and will give you our answer to-morrow morning by wire. Should they be in stock, they can probably be delivered in three weeks, otherwise, it may take four to five weeks.

Yours respect fully,

have all the for

DOLE ADEATO
FOR
PRINCE, SMITH & SOR,
WEIGHT COMMISSION
KOLE COMMISSION
KOLE COMMISSION
KOLE COMMISSION
KOLE COMMISSION
KOLE COMMISSION

Stoddard, Lovering &

TEXTILE MACHINERY

COTTON AND MOHAIR YARNS, WOOL ETC.

ONLE AGENTO
ONATIONALLY A BOAT
TANCY LOUS.
ELEMAN HOTE SONS
TOWN A TRANSPORT
CAMES VATES ADVE.
CAME OCCUPIED.
J. REFERSION A BRO.
WELL WARTEN.
TORLOTING.

KEEPIIN STOCK QUIVE OLL, SPUIDLE BANDS, COMBUNG PIUS, APRON LEATHER AND DUPLICATE Parts for Nachuren's from Prince, Smith & Son, 4. & T. Boyo, 400 Taylor, Wordsworth & Co.

Boston Mars December 21, 188 3.

Mr. Thomas A. Edison.

New York, N. Y.,

Dear Sir:--

We received this morning a cable message from our friends, saying that they could ship 24 Speed Indicators within a month, of which we informed you by wire, and received since your message asking us to order them, which we have done to-night by cable.

We remain, dear sir,

Yours respectfully,

Studeland, Lovering do

1883-12-24 EXTILE MACHINER) TON AND MOHAIR YARNS J.WHITE A SONS. DAERLEIN & CO. KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE SMITH & SON, J. & T. BOYD, AND TAYLOR, WORDSWORTH & CO. TEMPLES. Proston Man X 1883

(1883)

THE

WOOD AND RICHMOND REFRIGERATION COMPANY,

REFRIGERATING AND ICE MACHINERY,

CONDENSE WATER-COOLERS (Saving 90 per cent. of Water)

ing is almost adhering of the property capillary all things rage . She filing

to pass his edge and nto me boiler of you aus **6**) - 3-29(3)

1883. Edison, T.A. - Unsolicited Inquiries (D-83-018) [not filmed]

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

1883. Edison, T.A. - Visitors (D-83-019) [not filmed]

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.

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The Boston Edison Foundation
Cabot Corporation Foundation
Carolina Power and Light Company

Consolidated Edison Company of New York, Inc. Consumers Power Company Corning Glass Works Foundation Duke Power Company

Exxon Corporation Florida Power & Light Company General Electric Foundation

Gould Inc. Foundation Gulf States Utilities Company Idaho Power Company International Brotherhood of Electrical

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Company

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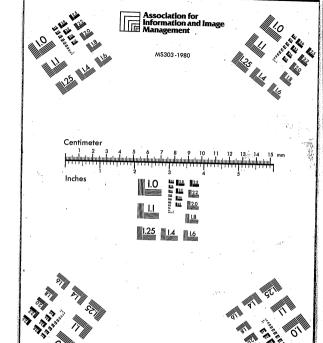
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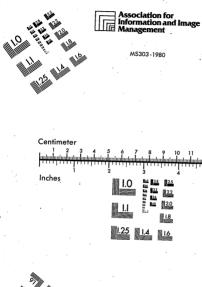
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REEL 65

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D-83-016 [continued] through D-83-019 ("Edison, T.A. - Outgoing Correspondence" through "Edison, T.A. - Visitors") D-83-016 Edison, T.A. - Outgoing Correspondence

CONTINUED FROM PRECEDING REEL

1

Baylor Plood Paga, Coneral Bandger,

Edizon 'n Indian a dolonial Electric Co.

london, G. C. Amgland.

"Boar Sart-

Then to give you below prices for machines, which we are now manufacturing:-

100 light saching 3 400

400 Light Saching 1,500

To are notting one designs for a is light machine, which will cost about 3175; a so light machine which will be sold at about 3175; we are also designing a 200 and 300 light machine, but cannot state what the price will be, until we have got a little further along in our work. Of course the only prices which you can look upon as absolute are those for the 100 and 400 light machines. In the course of a week or so, I can deabtless give you prices of machines of other denominations. All our prices are quoted 2. O. B. in New York, but should any extra packing be registed to charge you for it. In shipping to England and the Continent, we are in the machine only our ordinary packing, but I presume if we Mayor

to ship to Australia for you, especially if we have to ship by Peabody's cutters, we shall have to use extra packing.

I also be: to hand you herewith price list of the Bloctric Tube Company for tubing on three wire system. These prices are subject to variations in the price of iron piping and or copper

I will some you a pirto list for lamps by Saturday's mail. I have been unable to got this out, owing to the absence of an Upton, the Manager of the lamp Factory.

I understood from you when you were here, thut you had "obtained from Bergmann & Go. their prices,

Very truly yours,

Enclosure

Sopt, 3rd

3.

Charles Batchelor, Esq.

Paris, France,

My Dear Batchelor;-

I find that I did not answer your letter of "
the Buth, June, asking no to explain how it was therewas a cross
on the Mains, in the down town district which the saroty datches did not take care of, and which was only get rid of by putting on engine after engine until a place of tube was burnt right off.

You will remember that the safety catches were only put on one pole of the system. In the first case they are rectafind in the inside wire work by using a double safety catch, but
the underground system was still left with only one slue, consequantity, when the grounds appeared the unprotected side of the
circuit a short circuit was inevitable. Do you understand?
I sayvery porr on electrical descriptions, and more depocially
when it refers to a subject that I as not really conversant with.

I onelose you herewith depicts of two statishes drawn by Edison, the original of which I have sent to theb, hilan. This will show you exactly what we was at the central statish as an ampere recorder. It is attached to the contibus main in the state.

XXUN

tion. Bradley carefully recorded the merements of the needle and a compared these with the steam eards taken as the same time and them arrived as the exact number of lamps indicated as being on by the movisions of the needle, he then prepared a scale, and attached it to the recorder, so that when a deflection of the needle taken place is will point out exactly the number of lamps burning on the system at that mount. The thing works very well indeed, and it a second interesting to watch its movements. If it happens to be a showery day, and a cloud suddonly comes up, the number of lights but in within a few memoris is very large, as is shown by the deflection of the needle.

More tender more

Englossiva

Aopt. 3rd

⊭. Shaw, Caq.

. Penna

Doar Sir.

We have again gone into the matter of a central station

lot at bolloronte.

For 40 x 130, price \$450, on Jamb stroot, is the one best

suited for our purpose.

Very truly yours,

Soutember 3rd.

.

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I have not you consisted anything from you stating whichter you can and how soon you can ship air \$2 x 10 engines. All that we have is to the effect that you can shipp three wooks from the receipt of order. I we varying the cable to lenden on this point, and would argo you to let no have the answer immediately by wire.

Very truly your

Sept. Srd. 1868.

Charles 7. Westervolt, Esq.

120 Third Avenue, Cit

Dear Sir:-

Referring to your Tayor or the 30th, alte., I think you are in every in stating that I charged you with being dishenest.

I had information which lod no to believe that momentum of Very possible character had taken place with relation to the pay-rells at Goorch Street, and by informat commented your major with it.

I am glad to hear, hewever, that you are perfectly imposent, and that if anything ordered an relation to the above matter, you had no co-mountain whatever with it.

Very truly yours.

Sopt. 3rd. 17 6

A. Stuart, Esq. Secty.

Ohio Edison Cloetric Installation Co. Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the coth ulto., I should "
like to have pointed out deere we make 100 for cent on the items
in the lique estimate. I think there must be some error as to
time master, as our figures were all put at the lowest possible
point to enable us to get our "manare".

Vory Tral/ yours.

Sopt. Sad

1.0

C. J. Wilber, Req.

Wobstor, Bass.

Doar Sir:-

Your various letters to hand.

Will you ploase assertain at what time the library at Tamburn Pall, at Woreaster, lights up:

In future we shall be glad, whenever possible, if you will have un the time of the lighting of all publishment, halls, libraries se.

I as unable to tool you exactly where you will go to afte after you have canvassed non-section, but will let you know in the course of a day or so.

Vory truly yours

or or day yours

Saptombo



I. V. Serroll, Esq.

140 Massau Stroot, Cit

Doar Sir:-

Referring to your rayon of the Clat, I have heard from Mr. Conkling since you may had, and sy letter to you was in consequence of a communication from him stating that he would not for

Yery tridy yours,

17

Soit. Ord.

· Grd.

Sponeor Bordon, Esq.

r. 0. box, amaz,

Boston, Hass

Doar Cir:-

soul you by this matt, under separate cover, map or Servestar with red circle marked thoroun.

Thouse have the tries of lots obtained, that are for salp within the area marked, and send same to us, together with the approach herewith.

We want the lots marked distinctly on the map, and shall be glad to have rull information as to the sizes of each lot.

The price of same, the nature of the size whether there are any buildings on the lots, and if so, the character of same and size.

We are writing for the location of control stations at Morth Adams, and Fittsfield. Please let us have these as soon as possible.

Vory traly yours,

Major Flood Page, Con'l. Manager,

Edison's Indian & Colonial Electric Co.

Jondon, E. C. England.

"Joar Sir:-

You asked for a statement, when you were here, of the . number of Armington & Sims engines used by us.

I enclose you a list which gives you the engines shipped up to July, 1983. We are ordering these angines right along, so that this list, up to this dato, is incomplete.

Yory traly yours.

· September Ard.

3

George S. Jadd, Esq.

San Francisco, Cal.

DugirDums Sir:-

I find that your letter of the flethally has been dislaid, hence the delay in replying to amic.

I as \$2500 to you for the Post Office Order for 35.

I presumed that you had forgotten about the nation, and know that I would hear from you as soon as it occurred to you.

I enclose you herewith a memorandum propagod by her.
Ediaton as to conversing. If it does not give you all the information you desire in relation to this matter, please notify no
as to what further you would like us to explain, and I will answer
you broams!?

Yory truly yours

P. D. Dyer, Esq.

St. James Notel.

Springfield, Chic.

Dear Sar:

Infuture planse give megaposable, the time of lighting of all public halls, libraries se., as this information will we very dserul to as:

York truly yours.

Santomber 3rd.

Edison Lamp Co.

Harrison, N. J.

Doar Sirs:-

Referring to your Mr Wolzer's letter of the 30th, ult,.

I think it would be advisable to stick to by . fibres and try

and work up the life.

Yory traly yours,

Sopt. 3rd.

Charles T. Raghes, Esq.

J. S. Notal,

Mowburgh, H. T.

Dear Sir:-

I sond you by this mail map of howbargh with two circles thereon, and shall be glad if you will let us have a memorandisa of the lets for sale within that area, giving the size and price of each let and the nature of the soil, and whether there are any buildings on the lets, and if so the character MR NEWS and size of sans.

It would be preferable to have the control station inside of the circle AA and if not inside of the circle BA.

In sending the above information, please return the map with the lots marked distinctly thereon.

Very truly yours,

Sunbury

Sopt. 3rd.

W. S. Andrews, Esq.

Mattennal Hetel.

Shenokan, found

bear sar:-

If the summary engineer should get more, could his brother run the station?

no you think that the engineer and his brother could answer the questions with relation to the engineer and meter work, which in alicent sont you and which you answered?

Can you give me any Thromasion of the total number of lights connected at Sunburys

I have belographed this horning to im Harr asking him to sould holls the virguan, who is now at Sunbury, to report to you at Sunbury, the pending in Education is a reliable to it is a sunbury at there, I do not want any arrangements sould with a local lain, as in Education visions to choose one himself. If he is not desire sould would wish to assist him, say a local carrenter. This engagement should not be of a penasonal character, but only by the day. I want you to see that folls does his work well and economically, and also desire.

that when he Edison goes shore, he will have little difficulty in picking out the man he wants.

On Bonday X shall sond in Loonard to take the place of him Comant, as I want Comant to go to Brook the Tuesday night.

Yery traly yours,

..., ...

J. R. Campboll, Esq.

Bellefonte, Fonna.

Dear Sir:- .

Referrance your bofogram of yesterday's date, I begte send you herevesh another may of rellefente.

The central station we have chosen is on lamb street, let 40×120 .

You will have to get a jornal to run our feeders from the bush of the lot to the red lines, and the course our reeders will take is indicated by the white lines on the new.

Please see if you can not this possit, and return the

We will advise you by telegraph where to no after you got through at Bellefonte.

You will notice attached to the maps sent you make you make you what permits are required, in addition to those stated to you when you were here.

Very truly yours,

3

Major Plood Page, Gen'l, Manager,

Edison's Indian & Colonial Electric Co.

Jondon, E. C. England.

Dear Sir:-

Enclosed horostic please that statement of Mr. Edusen as to convessing terms for contral station purposes, alsomatatement as to the progress of our business in America. If you desire any further information on those points, please information and I will write you fully as to the Matter.

Very truly yours.

Enclosuro, d

Boyt. Grd. 1550

C. D. Willard, Seq.

care be Phonson, Willard & Go.

Forgentown, K. J.

Dear Sir:

Goodd you take some of the cores which we have at "Goord Street and hazzer then down so that they would be thicker and shorter? If so, on that torus would you do this?"

We wish to alter over a manber of our W and I machines, and in order to do so economically we shall have to get the cores hashered down to shorter lengths of great dissect.

Very truly yours,

1883.09.03

September Sre

John W. Hagb. Esq.

via bansoni, la A,

Hilano, Italy.

Dear Sirt-

I find your letter of the lat. July has been everlocked.

If the Tealian company will give you from about to a Sisson a year, I donnot think you would be doing better if you took from these a three years contract.

I thank it would be a great mintale to use designilators with relation to the stateon. If you will communicate with mintehelon, I have no doubt he will give you all the inversation you may desire on this subject.

You should use an ampine motor to show the number of Eights on the system at any favor time.

I onelose you herewith rough shotch of an instrument that we use for that purpose, which works you well indeed.

Vory truly yours.

Sopt. 3rd. 1983.

H. C. Blackmar, Esq. Supt.

H. Y. Hica Hining Co.

Custor, D. T.

Door Sir:-

Your very abusive letter of the 17th, ulter, addressed to my jorks, has been turned over to me to reply to, in consequence of the gentlemen who nonducted the correspondence with you having left my service.

I (have called for copies of the whole correspondence with you in relation to this matter, and will embeaver to settle it immediately the same is placed in my hands, as it is very distraction to no to be compelled to have dealings with any one who desire the verdency of statements emanating either from my own efficiency the office of my shope, the paraor machine works.

I do not know what has noon done in the matter recently, beyond your letter of the 17th, again, so as unable to may anything further than this at this Witting.

Very truly yours,

Dynamos

Sopt. Ord

3

Sessys. Bergmann - Co.

202 Avonac B, City.

Dear Sirs:-

BR dadrovs writes as follows Ath Foldtion to the new house changing switches:

"On further consideration, I think the connecting justs on double main switch should be made on sense pattern and size as "connecting post on head-board of "N" dynam, as there will be "three wires running to each of them, and it will be best to claim?" "all three."

Will you see that this is done.

Yery truly yours.

Potento.

Sept. 3rd.

Charles latchelor, Esq.

Pavis, Franco.

Done Sir -

I wrote you some time back in reference to Italian patents, and you sent a form which is not exactly what is required by Ws.

What we want to got is a copy of an official payor or order issued by the Italian Government in response to an applica-

Very truly yours,

Sops, 4th.

George M. Hopkins, Esq.

C-O "Scientific American" .

261 Broadway, City.

Doar Sir;-

I have your letter of September 3rd, and in reply would bee to state that you can use by mass as reference.

Trusting that your vonture will be successful, I remain,

Tak.



Danbury

1883-09-0

n.t. 4th. 3

U. W. Milbor, Enq.

Webster. waso.

Door Sir:-

I wish to call, your attention to some omissions which you made in the canvass of manbary, in order that you may rectify them in ruture:-

YURNER HOUSE. An old roundons of the place informs me that this is a large and first class hetel. You fail to monition it in your canyage.

PATEROAD DEPOT. You only show two lags to in the telegraph office. As about the waiting rooms, superintendent's office, platform &c. ?

OPERA HOUSE. You rail to montion the number of light or the approximate time of burning.

INMELTIMES. When there are only two or three deallings in a large block of say 1000 root, you should always state about how many root those houses are situated from a certain corner, as it is more than likely that without this information the lights will be improperly located. It is not necessary for you to give us the exact distance, for all processary purposes you can arrive near enough to it by packing.

In crossing railroad tracks, bridges or may other hoticoable land-marks, please mention them in your canvass. I notice

14

that you generally mention railroad tracks, but you omit to say anything about bridges.

When there are no houses on an alloy at as unnecessary to take up three or rear paper to may, "east sade nothing, north aide nothing, west sade nothing." If you would sumply make a note at the top of the page at would shower.

Yor/ tral/ yours,

S-b,

Sopt. 4th.

3

James Swinburne, Esq.

6 Normanby Torrace,

Gutoshoad-on-Tyno, England.

Doar Sir :-

I be: to acknowledge receipt of your favor of the 21st, ulto., and note what you may about the double winding of dynamos and thread carbons.

In reference to the former, I used those doube dynamics 3 2 years ago, and my patent is about a year old how.

We have made thread curbons but profer usans bumboo.

I remret to say that I am anable to avail agent of the opportunity of securing your very valuable services, as I have no position which I can offer you.

Yor's truly yours,

Take

Sopt. 4th.

Fad. Sprague, Enq.

Hotel Falmer,

irrock ton, nas:

Boar Sir:-

I have sent you by express this morning two maps of haverfull, one boing your determination and the other a determination made by an elundrum,

I wash you would compare whose and let me have your fanal descrimensation, resurning both maps.

I would like all involvation from you to be given in full detail, so that nothing may arise that will provent our going right ahead and gotting out officiates after maps have been received from you.

Very truly yours

A-1.

3

J. Spraguo, gaq.

hotel lalmer.

Prockton. Hauss.

boar Sir:-

I sent this corning by lexivess maps of Rucine and Williamsport for your determination,

It will be necessary to decide in each case upon the lot bost surted to our purposes.

Please let me have this back again at the earliest possable moment, as we are beaut pressed for estimates.

Very truly yours.

Sopt. 4th.

P. D. Dyor, Esq.

St. Jemos Notol,

springfield, Ohio.

Donr Sirt-

I have your letter of the let. inst.

It sooms pocular that the towns mentioned by you should

hg dend toyns.

shall be alled to hear of the progress of your canvass

in Springfiold.

Alexander more

89

F. E. Clavie, Eng. Prest.

Edison Electric Illeminating Co.

lawronee, Smar.

Some Sign-

I me in remain of your favor of your crass, and in really would may that on Theold telephoned to benymment a seprement, but they must have omitted to may informed you of the fact.

to shall commonso the shipment of tuben in about three tube, and shall start lawner then as soon as a sullinear masher as soon made and the same the second of the second

Very truly yours

13

Sopt. 4th.

P. S. Shaw, Esq.

Williamsport, Ponna.

Dear Sir:-

y an just in rescipt of your telegram of te-day in reference to estimates for Williamsport and Bellefeste.

We are pushing those to the utwest and hope to send them early next week.

Very truly yours,

Zak

Sept. 4th.

E. H. Bord, Maq. Trans.

Edison Electric Thuminating Co.

laurones, Hass.

"Door Bart-

Y have your letter of the lat. Inst, and in reply would be; to state that I will retain the temporary fixtures.

T regret exceedingly the delay that has occurred in finishing the lawrence Station.

to will commence shipping tubes this week, and sork will be proceeded with as quickly as possible.

Very truly yours,

Sont. 4th. 1884.

Spencer Bordon, Esq.

F. C. Box 3321,

Boston, Bass.

Dour Sirt-

Referring to your favor of the 1st. inst, I am obliged to you for the assistance you offer.

We have, however, obtained in Soldan(formerly in Clarkes assistant) as somerancement of the Worls.

an insull has not the Militor of the accounts in hund, and has had an expert working on those for a week. I am glad, however, to say that there is nothing wrong with them.

Very truly yours,

Sept. 4th. 1883.

Charles Batchelor, Esq.

Paris, Franco.

sy Dear Batchelor:-

Yours of the 20th, came duly to hand,

You will have received a latter, subsequent to mine of the 4th, ulto, which will rully explain matters at the Edison Suching Works.

What I referred to when you were ever here was that see Edison has given been a 7 per cont interest in certain work, by which Dean hade about \$9,000. Or \$10,000. The centract work of this shop, which I referred to, is the piece work, on which the man have blade a very great deal of menny. So far we have been unable to find out whether been had any arrangement with his men by which the got a share of this menny. However, we had sufficient other matters to show Edison that It was necessary to give Dean the "6.8"

I may say that I have obtained a release from Dean, by which the amount still due tild in the arrangement Edison made with him is viped out. We save 57, Cpm, by this release, which will go "In a slight measure towards what the Edison Machine Works has light by Donn's dishonesty.

You will see that there is no necessity to have Edison the the advise to take strendous measures, mentioned in the latter and of your letter. He had already taken the advice before your

Sept. 4th. 1663.

....

in kninger i

3

George H. Blans, Esq. General Burs.

Ghacago, 711s.

Doar Sar:-

I have your letter of August Seth, with enclosure from SE A. I. Smith, in relation to the inaccuracies in the blue print of Appleton.

will you planse ask the President to make the corrections he speaks of on the many

I would suppose that you should not buy a lot until you first consumments with us and sive as an experimenty to calculate whether it would be a good position for our control station, as you might jurchase a lot watch would raise the cost of the conductors to a very high rights, owing to its location.

Will you please herry forward the information asked for about bound lots on August 19th., also send us a map or Appleton as soon as possible.

Vory truly yours,

Zak.

Sout. 4th

Stokeor Burden, Car.

F. C. Box 3-331.

Foston, Bass.

Door Sirt-

T have your losser of the les. September.

As you desire it, we will leave all matters in connection with the varion at hall diver to yourself. The should wire for a 200 ona leap, and in places where there are 100 lights and over, you should but in two suparate systems, so that we can take our-rent off from both the A and it side of the three ware systems.

Very truly yours.

Jak.

Sept. 4t

3

Charles Batchelor, Esq.

Paris, France.

Dear Sir:-

I have your favor of the 20th, and in reply to made would may that the scener you can loave Paris the better.
There is planty of work here to do and very few of us to do it.

I am going to write to the Parts Company offering them lamp's at lower prices.

Very truly yours

Jak

Mosers. Bormann & Co.

293 Avonue B. Caty.

Door Sirs:-

I am in receipt of a letter from bir satchelor, under date of August 7th, in which he states that he has reveryed a bill for six are lights complete with globes and carbons, value 82-40. 1/320 .

. He wishes to know in these are Un nesestare lights, and says if they are, it was understood between Mr. Mavarre and himself that these lames would be sent as experimental ones, and he was not oxtected to pay anything for them.

Please let me know what I shall say in answer to Hr. Batchelor.

Sept. 4th.

3

P. B. Shaw, Req.

Williamsport i enna

Doar Sir:-

Mall you ploase hurry forward the information in Yelforenes to loca at lock haven and Romove, wont you about August 10th

Mould it not be possible for us to got information of this nature in a shorter time? " It soums to be that a month is a good while to here, a may, in order to give the information we ask for.

Very truly yours

Jak.

Sopt. dt

P. B. Shaw. Esq.

illiamstort, ronna,

Dear Sir:-

1 have your latter by August Blac, in reference to astimute for Williamsport.

Who alserreal determination for this place is now bearn; made and the estimate will he bont you in a very short take.

Yory truly yours,

A. Stuart, Esq. Socty.

Ohio Edison Electric Installation Co.

cincinnati, Ohio.

Bear Sirt-

on August 10th. I sent you blue prints or hamilton and convectown, and on the lith. a blue print of Vashington C.H., asking information in relation to lots. On the Earl, of August I again wrote you asking you to harry this information, as we were waiting for it and could do howhing until it arrayed.

Up to this grating it has not come to hand, and I as under the impression that some delay has occurred with which you are unacquainted. Will you kindly look the matter up, and have those maps, with all the impersation on them, forwarded to me at the carliest possible measure, as we can do nothing towards getting out an estimate until we receive this information.

Yory truly yours.

Jak

Sept. 5th. 8

Messrs, Hale & Walcott,

30 Court Stroot,

Roston, Hags

Door Sars;-

Your lotten of August 20th, addressed to me averener.

P. Lowrey, has been referred to me, and an reply T beg to state that I have heard nothing from Anders. If you will rever the commission to me T will see that Wilton F. Admen deposition is taken.

Vory truly your

Sopt. 5th. 1888

Gustave Soldan, Esq. Supt.

Edison Gachine Works;

104 Goordk Street, City.

Dear Sir;-

Wall you planno have prepared and sent to me a statement showing the number of argumentary you have on hand, what
machines they are for and whether class A or by X also sant the
Tist of unfilled orders, or which you should keep a copy.

Very truly yours,

:3

A. Stuart, Esq. Secty.

Ohio Edison Clostric Installation co

Cincinnati, Chic.

our sar

T box to asl nowledge receipt of your favor of September

In reference to an estimate for a 1000 light plant, it is impossible for us to inde an estimate on a plant of that size, as we have no type of dynamic or esgine that will answer. We can send you as estimate for an 1000 light plant or a 1000 light plant. Af you will let us know which one of those will be best suited to you are purpose so will have it forwarded to you at once. Trusting that your efforts in regard to liqua will be

successful, I am,

Yours very truly,

12

E. T. Greenfield, Esq.

292 Avenue B, City.

Dear Sir:-

Vill you Floane send me as soon as journible estimates on Blackwells Island, Wards Island and Sandall Island.

Vory truly yours,

Jak.

- 1

Frank S. Marr. Esq. Troas.

Edison Electric Illuminating Co.

Sunbury, Ponna.

Door Sir:-

Mill you be kind enough to lot me have a statement showing the number of consumers of electric light in sumbury, also the meant of their monthly bills?

I would also like a statement or the monthly expenses or the Sunbury central station.

I would been to remaind you that we are stall without a check for the balance due upon our contract, (85,498.)

Very truly yours,

Iak.

Soutember 5th.

F. J. Sprague, Esq.

Notel Belmont,

Brock ton, . : nos.

Donr Sir;-

I have your letter of September 4th, and in reply would say that I have ordered the wire, blow pipe and rubber turing to be forwarded to you at once.

Impreference to molder, why can y u not get this at some local store and charge it up in your expenses?

They order on Priosi to ship you the insulating tape

I also have your softeness of this morning, and have forwarded by express a blank chart of Fall River.

As regards inside civing, I telegraphed you this morning that we were attending to this ourselves.

. Very traly yours,

Tate.

- 3

James Compbell, Esq.

iovo, Penna.

Door Sar:-

I was presented this morning with a draft for \$50.; drawn by you at Bellofente, Fa.

I was under the impression that I explained to you one overning in the effice here that it was only under exceptional circumstances that I allowed may of my characters or other travelling employees to draw upon Me for themey, owing to the confusion which these drafts cause in the effice, even when drawn at one day's sight. I only extend this privilege when there is Me with money.

If you were to send me your expense account with a little regularity, it would enable no to have a better idea of how your finances stand. I have only received one expense account from you since you started out. These statements should be made to me on the 7th, 14th, 21st, and 20th, day of each month, and I that in future I will receive these from you in this order, and that you will make no more drufts, except when directly afternized to do no.

Very truly yours,

3

P. B. Shaw, Esq.

Villiamsport, : onms. Dear Sir:-

Tai in receipt of your favor of the 5th, inst, in reference to the master of lights at lock Eaven and Renovo.

The actual member of lights devered by our district in lock waven is 1,600 and in Senera 730 lights. I would therefore put a 1,000 light plant in the forcer place and a see light plant in the latter.

. Vory "Craty yours

Tolly

Sept. 6th. 1683.

The Edison Company for Is lated Lighting,

do Fifth Avonue, Grey.

boar sire:- -

Recovering to your requisition 1,1828, under date of soptember ith, asking is to require one "He areature from the Boston "Horald", I beg to inform you that this areature has its shaft journal on the pulley said budly out, and it will necessitate turning off, and consequently the bearing boxes now in the machines will not be available. It will therefore be necessary for its to make a new box for the journal, and I shall be glid to know if I have your authority for going should with this work.

Yours truly.

8,1

Set t. 6th. 1863.

Gustave Soldan, Esq Supt.

Edison Haching Works,

104 Coorck Street, Caty

Doar Sir:-

I am in receipt this morning of a latter from the General Panager of the Isolated Company stabile that the armature sent to Baltimore proved to be too short for that machine, and will have to be returned. The pillar blocks, containing the phospher bronze bearings, will also be returned.

I believe for sont four pounds of Habbitt metal and two mots of Bubbittboarings, for which you had no requisition.

Was there any other material sent not covered by an

Yours thuly

Sopt. 6th

à .

P. B. Shaw, Esq.

Williamsport, Jenna.

Doar Sir:

I box to acknowledge the receipt of your favor of the inst, and in reply would say that I will do all that I possibly can to send you the estimate for Bellefonte on Saturday morning.

Williamsport & now boils determined, and it cannot be returned from broad ten, where I had to send it, and an estimate made out and forwarded to you before either Menday or Tuesday, but you can rest assured that I will do all in my power to Turther the work.

Yory truly yours.

Tag.

Sont. Gth.

st. 6th.

Moners, Babcock & Wilcox

30 Courtlandt Street, gity.

Doar Sirs:-

Enclosed please find agreement in reference to our

Very truly Jours,

Enclosure.

Sept. 7th. 1683.

J. Butchinson, saq

016,

Dear Sir:-

I bent to give you the following inconsistion which you asked for in reference to the 25 light dynamic-

The height from the floor is 35 2 inches, size of bedplate 31 x 17 2 inches, the puller is 3 inches in dissect, with 4 inch fage, and the armature makes 1900 revolutions per minute. Yory truly yours.

A. 1

Honry A. Clarke, Esq.

s Boon Buildant.

Halltamore.

Door Sire

They to enclose you herewith three estimates for Brid for 1800, 2400 and 3200 lights, and assumting to 837, 271, 36, \$46,477.76 and \$54,554.00 respectively.

In making these estimates I have spared no means to reduce our figures to the lovest possible standard. I wish, however, to specially stipulate that in the case of each estimate our bid for the street installation is bused upon the assumption that your Company will obtain for us the necessary permits to run our hains and fooders according to the red lines shown in Exhibits A and H. sont you under separate cover.

Referring to our estimate for 1600 and 2400 lights, You will notice that the street installation gives a capacity of 3001 lights, and in both those cases the station is so arranged as to allow you to at any than inerdian your capacity to 3200 lights.

You will notice in TENTEDIE A ther our mains stop on the north side of Twelfth Stroot, between Sassafras and Peach Streets.

In our estimate for 3200 lights the stroot installation admits of a capacity for 3011 lights, in accordance with the red lines shown on the map marked Exhibit B.

I would drain call your attention to the matter of permits, in accordance with the red lines shown on our exhibits. Should you fail to obtain any of these, and by this means cause any additional expense, it would be necessary for us to charge your company with it.

Trusting that these Will boot your requirements, I um,

inclusuro.

F. J. Spraguo, Esq.

Hotel Belliont,

Brockton, Hasn.

Enclosed please find man of Bellerente, Pa. Which re-

dures a new determination according to the red lines.

I also enclose all your turns in reference to that

Very truly yours,

. hope. 7th

Charles T. Bushes, Esq.

y. s. Novol,

sowburgh, H. Y

Door Sirt-

I ben to acknowledge the receipt of your rayer of the Sth. inst, and in reply would say that plot 16.2, west of Bentmeary Street and north of Third Street, is the most desirable location for our contral station. You state in our letter, however, that these lots are on the side of a hill. I should like to know if the supposed of rock which would require blagting or whether excavation could be made with pick and showely you might find out from some local contractor what he would the charge per cubat the reduct of the layed of the street.

Please let me have this information at the earliest possible nement, so that I can be whom with the estimate.

Yory truly yours,

S. B. Eaton, Esq. Prest.

Edigon Electric Light Co.

City.

Doar Sir:-

contract and your asking by opinion as to the deceptance of the proposition of the Utica largetors to make a contract with me to put up the plant there for \$27,000, the balance of my estimate (about 30,000) to be paid by the light Company, I wish to place on record my objection to this course being pursued in view of the fact that you propose braining the matter before the Executive Community for first solutionant.

The proposed arrangement would be a good one for the "Construction Repartment", but a very objectionable one, in my opinion, for the Light Company to accopt!

I consider it far better to allow the Utica Company to fall through, rather than have the Light Company accept such a proposal which would most certainly projudice their future business, whereas the mailure to close the Utica contract this Fall would have, under the worst circuastances, but a temperary effect on our business.

Yours truly

Sopt. 7th.

. 3

Thomas A. Edison, Esq.

65 Fifth Avenue, City.

· Door Sir;-

I shall be glad if you can make it convenient to attend a meeting of the heard of threaters of the Edison Telephone company of Europe, to be held at the office of means. R. L. Gutting a Co., lo william Stroot, at I F.H. on Tuesday the lith. Serpember.

The purpose of the Eddfing is to consider the arrangements with Col. George E. Courand and the Edison-Gover-Ball Tolephone Colpany of Europe.

C61. Courand is now in the City and will attend the meeting and explain the state of the Company's business.

Yory truly yours,

Imagi dans

Edison Telephone Co., of Europ

Sout. 6th.

33

A. A. Cowles, Esq. Secty.

Ansonia brass & Copper Co.

19 Cliff Street, City.

Doar Sir:-

Would it be possible for you to furnish us with some of the cable for inside house string, as per the last sample you sent us? We want same very body to use in connection with our central station work, and would like to have it if possible before you shat down.

We require about 750 lbs. of No. 15, about 300 lbs. of No. 18, about 300 lbs. of No. 14 and about 200 lbs. of No. 12.

Very
We shall doubtloss need a good donl sarre of that shortly.

Will you please lot us know by bearer what you can do in

Yory truly yours,

Jag

Sont. 8th.

.

Sponcor Bordon, . Enq

P. O. Box, 3311,

Fostoh, Hast

"Doar Sir:-

in han to acknowledge the receipt of your favor of the sthe inst, in reference to Bean.

Transmeh as you have some two to breekton at the request of Mr Carrison, we promise there is no need to trouble further about the matter.

Yory truly your

Tale

Sopt. Utl

A. Stuart, Esc. Socty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Door Sir :-

To have your letter of the 5th. September.

We have no 1000 light plants (unit), and we cannot very well gays you an estimate for a 1000 light plant at present.

We think it would be a fatal error on your part not to make provision for future increase, as if you pursue that course the expense of extending your plant will be considerably heavier, than if you gut a plant in new with the intention of increasing it later on.

Very trul/ yours

3.

A. Stuart, Esq. Mosty.

Ohio Edison Electric Installation co.

Cincinnati, Chic.

Door Sir:-

We have your letter of the ith. September, with relation to our prices which you term very high.

You are entirely in error with reference to our prices and one with the salected on hollers and one was the large tried error/poillor, and find that the salected a wilcox holler is the only one suitable to our business. It would be absolutely impossible fordyou to purchase it for the race you mention. "Ordinary return flue beiler are entirely unclose to us.

with relation to omethos, we had considerable experience "Alth different classes of engines, when we first started our busimoss, and as the result adopted the Avaington & Sims engine, which, considering the results obtained from it, is by for the chougest in the market.

Very truly yours.

Sopt. Lith.

F. J. Sprague, Esq

Hotel Bolmont.

Brockton, Bass.

Don' Sir:

We ber to acknowledge the receipt of your favor of September 3th., and are obliged for the suggestions contained therein.

With relation to anything in connection with the station, whother it is includ wiring, automatic regulators or anything else, we wish you would be kind enough to make suggestions to this effice only, Anamauch as you were sent to breaken to station, in which you authority to deal with other work. We would much prefer that you should discuss matters butsideed your province with us and not with Mr darrison or any other worken gon-times with us and not with Mr darrison or any other worken gon-times with your yaluable experience may lead you to make, and should you think it desirable for any information to be communicated to the Garrison, if you will inform us of it, we will have it that from here. We shall esteen it a favor if you will pay particular attention to the above instructions.

As regards inside wiring, as Mr Carrison has taken upon himself the responsibility of ordering con from Boston to do this work, there is no necessity for us to deal further with the sub-

In relation to the matter of men to assist you in wiring the station, we do not see the advisability of going either to "New York or Besten to find them. We think one man would be able to give you all the assistance you will require. You could break in" a local carpenter in a short time, and thus save a great deal of unmeasagery expense. Then Mr. Androws was starting the Sunbury contral station, he only required one and to amass him, and we promume that you can work with order

CHARTS. We note Your remarks about forwarding you clean charts, and will in the future see that your wishes are complied with.

fail to understand your remarks in reference to auto-

the are certain that we have endored all the switches to exist ches. We are certain that we have endored all the switches necessary for brock ten, and (for your information) we have ordered as follows:-

U Fooder Switches, 10 new style house changing mutches, I new atyle plug switches, 10 small plug switches, 3 dyname changing switches, 0 small plug switches for lightning protector, a fund when

Sopt. Stl

4 Mo. 600 plus switches, 2 inch. and 1 double dyname changing switch of new design. The bank of test lumps requires 2 large plus switches and 10 mail plus switches of different design. These switches were cordered on in Andrews experience at Sunbury.

It is our desired to Way's uniform electrical connections for all our stations, and if you are unacquainted with the fixtures which I have decided upon, and which experience has proved to us to be the best for our business, we shall be very glad to give you what information you want at any time you may ask for it.

Is the broaddown switch you refer to the one designed by in Androws (the truble upname Changing witch)

We wired you list hight requesting you to send two determinations of Wall River, and stating that we had ordered all the wire which you wanted. I am notified this morning, by the Western Union Telegraph Company, that you left Brockton last hight for New York, and that the company is undelivered. I presume, however, all there is some matched in the matter.

We wish you would very kindly boar in mind the remarks
we have made in reference to suppost tons. We are only too glad
to receive ideas from any source whatever, as longues their flow
is differed to this office, but we particularly wish to reserve to

1883-09-08

ourselyes the privilege of distributing those ideas among people only indirectly connected with our business, as the improper use of them may caule us very serious inconvenience.

Yory truly yours,

JA,EJ

- 3

W. S. Andrews, Esq.

Sharokin, Ponna

Dear Sir;-

Y beg to acknowledge the receipt of your favor of the Ath. inst, and note what you say in reference to the Sunbury engineer and meterman.

I am having printed copies made of the dynamo questions and answers and "instructions", and will some you copies as seen as I receive them from the hands of the printer.

Vory truly yours

Jak.

Sopt.8th.

Charles Datchelor, Esq.

Paris, Franco.

My Doar Batcholor;-

I have your letter or August 7th, and have been obliged to delay answering it in order to obtain information from MnyNormann in reference to are lights.

That gentlesses sugar that he received an order for those large from you erally, and that he only known you in the mister, but if the mayare wishes to have the charge transferred to him, he thorograph will do so. The large referred to are in Moses patent.

Regarding dynamor, our "IP machine gives 400 ampores;
we are winding with larger wire and will get free 450 to 37;
ampores easy without any other change. We are running, with perfect success at louisville, 14 "IP machines, with a constant load

You can tell Bailey that, taking in costs, we will discount Hopkinson and go him ton per cent better on anything he can

Yours very truly

Sept. 8th

3.

Goorge S. Ladd, Esq.

222 Sansome Stroot,

San Francisco, Cal.

"Doar Sir:-

I have your favor of August 30th, and in reply best to state that nicked as a conductor is seven times were at the copper and four times more expensive. MrBurbage has no authority from us to make a statement that a nickel mine would be of great value to for electrical and telegraphic purposes and that it is superior to copper as a condustor, as such is not the case.

The instructions for canvassing towns in the interest of

Very truly yours,

Take,

Sopt. btl

3

Societo d' Appareillago Electrique, Genava, Switzerland.

Dear Sirst-

Noferring to my contracts with meanrs. Blodormann, swittendaming the pulse with reference to the introduction of my system of electric lighting into Switterland, Thereby accept and ratify Article Seventh of the Statutes of your Company concerning the transfer consented to and accepted for the price of 145,000 france, and I also accept and ratify the rest of the Statutes of your Company.

Yory truly yours,

Sont. 9tl

3

Mossro. Borgmann & Co.

292 Avenue B, dity

Dear Sirs;-

Please sand me by bearer ten (10) copies of your estalogue and give me your best rate of discount for our Swiss Conpany. They are at present buying their material from the London Company, and I have no doubt but what I can not their trade for you if you will put your discounts on high as possible.

Vory 'truly yourn

Jaky



Switzerland

A. Achard, Esq. Prest.

Societe d'Appareillage Electrique,

deneva, Switzerland.

Doar Sir:-

Referring to my lotter to you of this date giving prices, since I wrote that letter I have received from downs. Refragamin & No. the following:-

and will agree to furnish goods in our catalogue to them at thirty (30) per cent discount, excepting cockets, cut-outs and switches, on these, as an extra inducament, we will make the discount thirty two and one half (32 2) per cent.

Those prices are better than Bessie, Bergmann & Co. have over quoted to anybody, and I trust that they will prove acceptable to you.

The above cancels that part of my former letter which refers to wester, hormann & to's discount as being twenty five (29) her cont.

Mosers, Bornsann & Co. ship goods charging for boxing and cartage on same, but this is a very mail amount.

I would suggest that you prepare a tolegraph code for use between your company and mysulf.

Anything that you may require from hereI shall be glad to attend to the shirment of, and in fact would suggest that all orders should be sent to be and hayments made to me, in order to evold confusion and to insgre your getting exactly what you require.

Vory truly yours,

Ja.E.



A. Achard, Euq. Beets.

Societe d'Appareillage Sloctrique, Coneva, Switzerland,

Doer Sir :-

I have received your various letters as to the formation of your company, and have recently received from my Attorney, Mr. Coddard, a full report on the matter, which enables me to reply to the various questions raised by you.

Pirst, as to material. Within the last few menths we have made a great many changed in connection with the construction of our dyname machines with a view to increasing their capacity for a given investment, and in many cases in increasing the capacity and reducing anginvestment. We have so far turned out a 400 light machine, which we are prepared to sell to you for \$1,500., V.O.B., New York, and also a 100 light machine, for which we should charge you \$400., V.O.B., New York. At the present time we are about constructing a number of 23 light machines.

50 light machines, 300 light machines and 300 light machines. At this writing it is impossible for me to give you the exact prices of these machines, but immediately our work on them is

advanced sufficiently, I will send you quotations for your guidance. With relation to the two machines first referred to, I have ordered for you detailed drawings of mane, which will be sent forward at the earliest possible moment.

It has been quite impossible for me to write you carlier on this matter, owing to the fact that at the camerou applied for information, and the construction of our dynamos was in a state of transcission from one style to another, and the data at our command was not sufficient to be of any autorial assistance to you.

Ath relation to Sockets, electroliers and other sundries, I send you by this mail, under separate cover ten copies of
Mesers. Bergmann a Co's catalogue, which will give you exactly the
information you ask for. The prices quoted are subject to a
discount to you of twenty five (33) per cont, which is the very
best terms given by them to any of our companies.

I also send you, under sopprate cover, copies of besses.

Armington r sins engines, for which I beg to quote the following
prices of the control of the cont

3

1
9 2 x.12 Engine,3 1,050.
13 x 13 Engino 1,000.
Each of the above engines have one driving pulley on.
13 x 13 ongine with a driving pulley each side. 31,650.
14 2 x 13 engine with driving pulley on cach side
1d ax 1d origing such out any driving pullays and arranged for connecting directly with atoms disease
With relation to lamps, I bout to quote you prices as follows:
Ton (10) Candle lamps
Eight (U) and Sixtoon (16) Candle Lamps50
Thirty Two (32) Candle Lamps
##frey (50) Candle Lumps
One Hundred (100) Candle Lamps
The above prices for lumps are F.O.B., New York.
The reasonswe charge sixty cents for ten candle lamps,
s that it is but recently that so have started to manufacture
hom and the quantities in which we make them are comparatively
mall and the difficulties of Manufacturing are considerably
router than in the case of the eight and sixteen candle lamps.
I also sond you, under separate cover, six(6) complete
ets of our Bullotins, from Bulletin Ro.A, those coming before

that number being out of print.

I further sond you six (0) copies of the catalogue of our Isolated Company, and also six (0) copies of a small pumphlot on clocking lighting.

I will endeavor to sold you, it the course of a few days, a set of electro-types for your use.

With relation to your conquery as to whether I can have you the right to sell installations in countries where I have no constants to exploit my patents, I beg to inferm you that my continuets are of such a character that I was absolutely procluded from giving you the concession you ask for.

If you will please whyise me of why further information that you may require of me, I will see that it is promptly sent you.

I onclose you herewith reduced photograph of our 400 light machine, which will give you some idea of the construction of same. The 100 light machines are get up in the same style, and immediately I have photographs or them in hand, I will send you copies.

Vory truly yours

Enclusure

Porsonal.

Sopt. loth.

•

Frank H. Mc. Cornack, Esq.

Williamsport, Fonna.

Boar Sir:-

I onclose you herewith two letters of even date, one addressed to the Promotors of the Edison Electric Illuminating Company of Sumbury, and the other addressed to you as President of the Edison Electric Illuminating Company of Sumbury. The latter must not be presented to the Directors of the Sumbury Company, until the Presented to the Directors of the Sumbury company, until the Presented to the Directors in the Presented to the

I soo no prosports of the immediate solidment of my accounts, and I make the properties contained in the two letter's enclosed as the only solution of a difficulty at once embarrassing to the Sunbury Company and annoying to myself, inamsuch as I put in the plant under a centract which load me to look for full payment immediately my work was finished. Understanding from my Socrotary, in Insull, that the directors of the Sunbury Company were willight to account to any fair propisation which would enable the properties of the sunbury company were willight to account to any fair propisation which would enable the properties of the sunbury company of my money or semathing to represent it, I think the officient is the best way of muchally settling the matter.

Zara

[ENCLOSURE]

1883-09-10

opt. 10th.

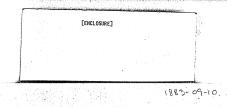
To The Prove tors of the Edison Electric Ill. Co. or Sunbary, Sunbary, Penns.

Hoar Sirs:-

Weferring to my Instar to the breakdant of the Sambury Company of own date, I and a the proposition contained in that latter on the condition that the stock to be received by you (an Propositio) from the Salasan Electric light to, shall be allotted to me, or if allotted, thansferred to me in proportion to the amount of stock allotted to me by the Compiny in settlement of my account against them. For example, if it takes three tents (10) (after increasing the stock of the capital stock of the company to enable them to settle my claim, the amount of the remoters shares, I am to receive in addition, shall be three tenths (10) or the total askint of shares of the Sunbury Company received by you as Pounders from the Edison Electric light Co. .

Yory truly yours,

Zal.



Sopt. 10th.

.

Frank H. Mc.Cormick, Esq. President.

Edison Electric Illuminating Co. of Sunbary,

Walliamsport, Ponna.

Bear Sar;-

I an anxious that the indebtodness of your Company to me (about \$6500.) should be settled forthwith. I beg to project that the beliance of the above amount, the price to be allowed for said stock being the pur value of the shares. To pay for the beliance remaining after that, your company must increase their capital stock to such an amount as to pay me (in stock) for said beliance.

Ploase have this matter brought before your mirectors and acted on as early as possible.

Vory truly yours,

Fals

Spot. 10th1883.

Gustave Soldan, Esq. Supt.

Edison Waching Works

JO4 Guerck Street, City.

Boar Sirt-

It is very important that I should have tracings of the locality in the last part of the locality in the locality is an expected of the prints of same to send to our various foreign companies. If you can oblige no by gotting these out at the carliost possible means, I shall esteem it is favor.

'Very truly yours,

SI

Sopt. 10th

W. . Douty, Esq. Prost.

Edison electric Il uninating co.

Shamekan, Fenna.

Door Sir;-

Mindian that the Wife, that I wrote you about, would not be ready in time to impable you to take advantage of it in the little take, I sent a wireman to shamekin to start the viring there, so as to mable us to not sufficient lights on which to hake a Showing shout the station at Shamekin in put in operation.

I was very much surprised and somewhat almoyed at rinding that that wiremanniamed have been sent back to now York by you without your communicating with he at all in the matter.

In order that we say he's some lights attacted as Shamekin at the director possible date. I would strapply advise that you sould be Sanbury for a man who is doing the varing there and have him wife up several prominent pulldings to start the work.

It is only a matter or a vory row wooks before we will be able to supply you with a vory much cheaper material for wire work, but in the meantime I think that your business would suffer very much in the station was Turt in its present state until that material is ready.

Ja,6

P. D. Dyor, Esq.

Iondon, Ohio.

boar Marie

I have your lester of September 5th, sated at Springfield, this, and in reply ber to any that I do not at all approve of in Stuart's ideas as to down a city abound be conversed.

If you converse a city of the airs of Springfield for only 1000 lights, if they should ever whit we increase their plant, it would necessitate abother converse, while our present style of doing business another converse, while our present style of doing the desired another converse, the our present style of doing the first only and the second of the first only of the second of the first only of the second of

I should like very much to take a trip to the Gineminati and Louisville Expositions to see our plants in operation. I have excellent reterts from all quarters, and from them judge that we are highing a very fine show. Unfortunately, however, I am so busy that I camed even run into the country for d few days to reculiarise, identificationing the fact that I am very meanly "played out" with hard surk. I hope, he were, that the shell of cold weather, which we are in the present moment enjoying, will have a bracking effect upon my constitution and enable me to large

one, Arthort toping any holidays.

Yory truly yours,

85

Sopt. 11th.

J. R. Compbell, Enq.

Williamsport! Fonna.

Doar Sari-

I received this morning your leason and map in reference to Remove.

Have the Beneve despiraty, by their charter, the prival we of running wires according to the red lines shown on our
rung. I find that you have not given he that information, and
should like to knew if we can right through private property, and
if there are any obstructions in the way and the nature of them
I wish you would always be careful in sanding reports
upon a town to include this information, as without it is impossible for us to make a proper estimate of the cours of the
attent installation.

Vory tr ly yours.



Sopt. 11th.

A. A. Cowlos, Esq. Socty.

19 Cliff Stroot, City.

Doar Sir:-

I have your letter of the 10th.

The price numbed by you for the cable seems very high indeed. Cannot you pensibly make it for us for loss than 45 ets. per pound? We desire the cable put up in boils. We order by Extrainghas guage.

Yory Truly yours,

1883-09-11

Sept. 11th. 1083.

The Edison Co. for (solated highting,

City.

Door Sirs;-

Referring to your ravor of yesterday's dute, it is very uncortain when we shall be able to take in hand the changing over of the **?* and **12 muchines. Even if the **?* machine is of the **.

Into a 100 light suchine it will of necessity be a mare expensive machine than the present 100 light machine and by ne means so **

Good Tooking.

Yours truly,

Sort. 11th

J. F. Barloy, Esq.

33 Ave do l' opera,

Paris, Pranco.

shangourrealloy:-

I have your letter or August 10th, and note what

I do not believe that your scheme would be remarble in

that place, but I think that Paris might do.

In reference to the other points in your letter, Major Eaton is writing you, emeracing them all.

Vory truly yours,

Jak,

J. D. Rich, Esq.

Hotel Balmont,

Brockton, hass

BOAY BAYES

I have your latter of Esptember 6th, and have endered for and the glass for the eilers and the gib, which were broken in transit.

I promuse by that this you have received the sm feet of $^{1}\mathrm{S}$ and hubber tube which you asked for.

I think it would be is well for you to obtain office furniture in Brockton, keeping the cost of some under 51.00.

I do not understand what the oil came are which you ask

T also have your latter of September 1st, enclosing sketch showing the disposal of indicators and switches in the Brockton central station.

Very truly yours,

\$

Sopt. 11th.

Mesars. Bergeann A Co.

202 Avonue B, City.

Donr Sirs:-

Then can you supply un with a ¹4 horse power motor and i ¹8 horse power motor watth connections cusplates. We want to send them to Brockton.

Yory truly yours,

1883-09-11

Sopt. 11th.

N. S . Koith, Esq.

. 41 Jiborty Street, City.

Dear Sir:-

Will you pleam lot no have shipping directions for the plating machine built at the Machine works.

Vory traily yours,

Taky

Sopt. 11th.

G. W. Wilber, Esq.

dorner 4th. & Rodman Sts. Fall River. Hass.

Dear Sir:

I enclose you herewith map of Fall River, and I have enclosed in a red line the district that I want you to carvass fort first. After you have canvassed this district you can go ahoud with the rest of the city, but I want you to take in a larger area than is shown on this map. T believe the city extends consider-"ably further South, North and East than is recorded on the onclused , and if you consider it advisable to go further West, I want you to do so. I am particularly desirous of having this canvass made with all possible despatch, and therefore think it would be better for you not to make it in noo from, but to get it out on sheets, which you can work up every hight and send us the data in the morning, so that we can go right ahead with the map as this information comes to hand and have it completed by the time your canvass is all sent in. I trust that you will do everything in your power to rush this through, as it is imperative that we should have the estimate ready by the 21st. After the map is completed it has to be sent to Brock ton for the electrical determination to be made, and you will therefore see that no time is to be lest

in forwarding your notes.

Please no careful in montioning dwellings to gave the class and it you come across any bridges state whether they are draw bridges or not.

I notice in your canvided of Natick that in some places
you canvass a store for the first time say at U.05 P.N. or later
"and mark it "closed". It would be well for you to find out if
the store closes at J.P.N. or if it remains open until 7 or 7.30.
Yory truly yours.

That is receipt of a letter from in Andrews, under date of Sociation 4th, and I ber to quote the following for your unforfritkont-

"I hope that Bergmann is pashing forward the three empore conters and the pressure indicators, also the double main contehfor space dynamo and my standard well mater. I shall soon be waiting for the amore determine. I wrote a latter to an Clarke concorning those instruments festerday, and I trust that in borg-fe mann will see that my directions concerning them are carried out or we shall have trouble."

Un Androvs at the moment is in the city, and will doubt loss call upon you with reference to the above.

I have this day sent to here Oscar Von Miller, Munich, onveria, bill of Inding for one box of electrical material shipped by you on the 5th, inst. by the "Nor Star" Miskel

Very truly yours,

Sont. 11th

S. R. Bailey, Esq.

Oxford, Conn

Dear Sir;-

Your favor of the 7th, inst, came to hand yesterday.

With relation to what you have to say about my telephone, all the comment I can make on this is that you are entirely in error. I have never taken advantage of yours or anybody class inventions or suggestions. I see altogether too bany to consider any matters outside of my own inventions, and would therefore suggest that you should patent your ideas and work these out yourself

Vory touly yours

opt. läth.

Frank H. Mc. Cormick, Esq. Prost.

Edison Bloctric Illuminating Co. of Sunbury,

dilliamsport, Ponna.

Doar Sir:-

I have your letter of the 5th, list, in reference to

The value of the machinery, together with the building, s is about 50,000., and one per cont would be a fair rate on a Yisk of this character.

Vory truly yours.

Jaly

Sopt. 12th

з.

Philip Richardson, Esq.

| Box 589,

Woburn, liass,

"Doar Sir:-

I have your fagor of the 10th, anst, and an really begt to atate that we have changed one of our machines to a plating machine for Mn Feith for metallingical purposes. It gives 0.2 volta pressure and 0.33 ambores of chirrent. The price was \$1,800.

Trusting that this Will have you all the information

you require, I a

Very truly yours

Taby

Sopt. 12th.

W. D. Rich, Esq

Hotel Belmont

Brockton, Has

Door Sir!

I have your lotter of the 10th, inst, and in reply would say that I do not understand your statement that there is no midderial at Jawrence to commone work on.

The bodplate and washers for the 14.2 x 13 ongane, together with washers for bolts is said variety. The bolts and papes for both engine, went forward on the Hids value. The bolts and papes for both engines went forward on the Hidsen, which are channer covering was forwarded on the 28th, and bolts for the dynames on the said date! took lamps on the 27th, and with one or twonexceptions. The engine room and mater room sundries have all been despitabled. I have just been notified by Hossrs. Habouck & Wilcox time the boller was shipped the providing, and you can have the 14.2 x 12 and the providing which we will be not by notifying desirs. Writington a Sime to ship it. The steam piping should no forward to-morrow.

I have advised you right along of the chipmont of this material, and I shall be plad to knew if any of it has gone attray, as I have tracers nont got for it immediately.

Sept. 12th

The Electric Tube Complay have already commenced to

I shall be gird to know if there is anything else that you have not recaived which will provent your foing ahead with the work.

As requested, I enclosed by hereful a plan of the lawrence station, and also two bild prints of the underground copducturs. You will recollect that these conductors stop at
Jackson Street, those beyond that showing the extension which the

Very truly yours,

Sept. 12th

Edison Electric Light Co.

london, E. C. England.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the lamp.

"Company to quote to you the following prices for lamps ordered IN "Lots of 10,000:-

13

U candlo lamps...\$.40

16 candle lamps.... .40

10 candlo lamps.... .30

32 candle lamps.... .60

50 candle lamps.... 1.00

100 candle lamps ... 1.50

If orders are given in lets of 23,000 lamps and upwards,
we will ship them to you free on board in the Ports of lenden.
Bristor, Liverpool, Clasgow or any other English Port to which
shipping rates are not higher than these to the Port of Lenden.

You will notice in the above that 32, 50 and 100 candle
lamps are quoted at the same prices as these recently billed to
you. We regret very much our insbillty to reduce these prices,

. .

but find it impossible to do so, as the lamps referred to are of a special character, and the domand for them is very limited, and the lamp Company manufactures then at a loss. As the domand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. These quotations are to take effect on all orders sent by you from this date, of a said orders are given in loss above mentioned.

Vory truly yours.

Jak.

P.S. If you are prepared to order a candle leages in lets or 10,000 or upwards, we shall be willing to supply them to you at thirty five (33) cents each, and if ordered in lets of 25,000 and upwards, we will ship them to you free on beard to the Ports of Tondon, Bristel, Liverpool, Clasgow or any other English Port to which shipping rates are not higher than those to the Port of London.



Doutscho Edison Cosellschaft,

ud Loipzigor Strasso,

Berlin, Germany.

Door Sirs;-

In view or the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Compan. To quote to you the following prices for lamps ordered in outs of 10,000:-

e candle lamps...s .to

16 candle lamps.... .40

10 candle lamps.... .30

32 candle lamps.... .00

50 candle lamps.... 1.00

100 candle lamps ... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on Soard in the ports of Hamburg, Antworp of Genea.

You will notice in the above that 3d, 30 and 100 candled lamps are quoted at the sume prices as those recently billed to you. We regret very much our inability to reduce these prices

but find it impossible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices of these louns also. These questions are to take effect on all orders sunt by you from this date, if said orders are favor in lots above mentioned.

Very truly yours.

Taley

P.S. If you are propored to order a candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) conts each, and if ordered in lots of 35,000 and upwards, we will ship them to you free on board to the Ports of Hamburg, Antwerp or cenes.

A. Schard, Esq., Prest.

Societe d'Appareillage Electrique,

Coneva. Switzerland.

Dear Sire

Referring to my letters of the loth., I bog to supplement the prices quoted for lamps by the following:-

If you will order from us lumms in lots of 10,000, we will give you the following prices:-

8 candle lamps....\$.40

10 candle lamys.... 30°

10 candle lamps......50

32 candle lamps... .00

100 candle lapps.... 1.50

If you give us an order for 25,000, we will rive you the turther advantage of dailyoring the lamps free up board in the Ports of Hamburg, Antworp of Haves.

Vory truly yours

P.S. If you are propared to order to candle lamps in lots o

1883-09-12

2

10,000 or upwards, we shall be willing to supply them to you at thirty five (%3)conts each, and M ordered in lots of 23,000 and upwards, we will ship them to you free on board in the Ports of Manburg, Antworp or Havre.

talige all taling a substitution of the state of the stat

A service of the control of the service of the control of the contro

Sopt. 13th

Sociato Electrique Edison

Paris, France.

Door Sirs:-

In view of the infrequential in the manufacture, and the increase in the demand for lambs, "I have arranged with the Lamp Complany to quote to you the following prices for lamps ordered in lots of 10,000:-

u candle lamps....\$.40

16 candle lamps.......40

10 candlo lomps......50

50 candle lamps.... I.00 **

100 candle lamps. . T.50

If orders are given in Jots of 25,000 lamps and upwards, we will ship them to you from on board in the Ports of Hamburg, Antworp or Conos.

You will notice in the above that 32, 30 and 100 candle larges are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these purices,

superind it amponsible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the jamp Company manufactures them at a loss. As the demand increases and the methods of habitacture improve, we shall no doubt be able to quote you settly prices on these lamps also. This quotestions are to take offect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

P.S. If you are prepared to order a candle lamps in lots or 10,000 or upwards, we shall be willing to supply them to you at thirty five (33) cents each, and are ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of Remburg, Antwerp or Conca.

Sept. 13th.

P. B. Shaw, Esq.

Williamsport, Ponna

Dear Sir:-

I beg to acknowledge recorpt of your favor of the With.

Inst, and regret to state that it was necessary for us to obtain a
new determination of solicioned, and we were consequently unable
to forward you the estimate on Naturday as presized in the prev-

I will sond you estimates of Williamsport to-morrow of morning for 1900 and 2400 lights.

In reference to Oil City, I presume you are name that
we have as you made no canvass of that place. I suppose, however,
you will notify us when you want this dom?

very truly yours,

Jak

Door Sir!-

I am in receipt of a letter from Mosers, Harris & Robinson, under date of September 11th., asking us to make a carvass of Morwalk, South Morwalk and Waterbury, and shall be glad to know if an have your authority to go ahoud and do the worl? Yours truly,

Sopt. 12th

.

A. A. Cowles, Esq. Socty.

19 cliff Street, City.

Door Sir:-

I box to acknowledge Young of your Tayor of the 11th, inst, in reference to triple covered sire, and will send you the scaple that you ack for in a day or so.

Yery truly yours,

Sil

Sept. 13th

W. H. Douty, Esq. Prest.

Shamokin, Penna.

Doar Sir;-

I wared you this afternoon that you should order through the Edison Electric Light Company, 250 lamps of ten candles each to start on.

In order to explain to Noi by reason for sending this concern, I would say that the Tamps have to be ordered through the Minh Company, as the Edison Lamp Pactory cannot recognize officer uplace they are received through that Company.

Tall

Sout. 13th.

F. R. Upton. Esq

Harrison, A. J.

Doar Sir:-

I beg to acknowledge receipt of your postal card of the 12th, inst, and in reply would say that Mr. Edison is going to Shamokin on Monday, the 17th, prox.

Vory trul/ /ours,

Sopt. 13th.

F. I. Spraguo : Esq.

Notel delmont.

Brockton, Hass.

Doar Sir;-

In reference to your several communications received during the last few days, I repret to say that Mn Innull, who has those matters in hand, is at the present measure 111 and confined to his bed. No will, however, he in the office again to-morrow or next day, when he will send you she necessary answers.

I have your letter of towing's date giving the size of the colls for the regulator designed by you and have referred a copy of it to harmons s to.

fory truly yours,

W. D. Rich, Esq.

Notal Helmont.

Brockton, Mass.

Doar Sir:-

I have your letter of Sopt. 19th., and in verl / would say that the parts of the "" dyname which were lest in transit will be sent you immediately. The delay in sending these was caused by the superintendent of the Sachine Works not understanding what you ment by "gib". I showed has your shotch and he ago: understands what it is that you want.

In reference to all came, please return those yes have on hand at Brockton to John Ott, care Bergmann & Col, 202 Avenue B, New York.

I note your remarks in reference to Lawrence, and I pressure that you can start on Henday to erect the boiler.

I tolographed Samuel J. Koore & Sons than morning to send he a duplicate shipping receipt for the washers and bedple to.

Then I get thin, I will send it to you and you can have the railvey agent at leavence send out tracers for the missing material,
providing it does not arrive in the mountaine.

I will write Mosars. Armington & Sims in reference to the step valveson their 14 2 x 13 engine, and have it made the pro-

per siso.

The Lawrence motors went forward yesterday, and Y thank
the Proceeding actors were shipped at the same time, in any event
you will receive them in a day or two.

Freight bills came to hand "O.K."

Vory truly yours,

Jary

J. R. Campbell, Esq.

Williamsport, Penna.

Doar Sir:-

I have your letter of the 13th, inst., and forwarded to you yesterday morning another chart of Williamsport.

In reference to the Williamsport Company securing themsolves the necessary companions to erect poles on private property, I would state that we much prefer to obtain these permits ourmelyes, but if the Williamsport Company desire that we shall allow
them tomobtain the remaits, we will do so, but simply stipulate
that our bid for the street installation will ally hold good
providing the concessions are obtained in accordance with the lines
shown on our exhibits.

Enclosed find check maker 50 for \$50, to cover your oxponess.

Very truly yours,

Taky

George F. Blass, Esq. Conoral Supt.

Chicago, Tlls:

Done Sie:-

I we informed by a gentleman, who bounded at the Palher House, this see, that the lights installed in that be aldingage out two or three times a week. I prosume that you have been unagare of this fact, and I write this letter in order that you may have the initial corporate.

Yory truly yours.

Jacy

F. J. Spraguo, Esq.

Notel Belmont,

brockton, Hass.

Doar Sir;-

We have the pleasure to acknowledge your favor of the tith, inst, which would have been replied to earlier but for circumstances which have interfered to prevent this being done.

AUTOMATIC REGULATOR. We do not believe at all in the use of automatic regulators in control stations that the regulator is in such a condition. In our opininothe automatic regulator is a necessary evil in isolated plants where there is great variation number of lamps on at any one time and the variations in speed. Both these difficulties are comparitively overcome in our control stations, and I much prefer hand regulation. With relation to the hand regulator, I enclose you herewith a sketch which will show you the without in which will show you the with same blumber had been made in this connection as the one you now have. You probably can set it right by pursuing the same course as No. Andrews did.

With relation to him, if you find it chonor and more occommical to use wiremen, you can of course have thus. What we want to do is to have the work done as well and as economical as

2

possible

The connections, such as designed by Mr. Johnson, have been ordered for you and will be shipped immediately they are ready

With relation to the switches, we enclose you herewith a rough skotch of the arrangement of the station at Shamokin

All reference in letters written you have been partly based on the method pursued at Shaqakin.

fill you please see if you have switches to answer for the work at swockton, following generally on the same character of work as that done at Shamokin, and a knowledge of which the enclosed sketches will give you? If you have not we will order such s litches as you may intimate as being requisite. It is our impression, however, that you have all the switches, and in fact several over, except possibly several plug switches for cutting the bank of resistance in and out.

The reference in our letter of the 8th. Sunbury was in error, Shamokin should have been mentioned, as the criticism on switches required by you was based on what had been found to suit the purpose at Shesokin.

Yours truly,
Leeby

Enclosure.

0

F. J. Spraguo, Esq.

Hotal Helmont,

Brockton, Mass.

Doar Sor:-

This will introduce to you in Johnson, when we are sending to breakton to take charge of the wiring of houses under your direction. We desire that in Johnson should are enough houses to make a showing on at the start, and if he requires any assistance, that he should obtain it locally, subject to your approval.

Then I get to Themskin, I will choose a local man, who is to be taught our method of waring. You will of course see that In Johnson follows out generally the plans laid with Mat Sunbary, with relation to inside wire work.

Yours truly,

Jae

Sopt. 14th.

Hotol Helmont,

Brockton, Mass.

Door Sir;-

Please impress Apon Mr. Jonk's the fact that we must not gut in any customers the setal of whose lasps will not give us at least two hours and thirty minutes average for 300 days.

If he is going to cut in any one who wats the light, the station will simply be a commercial failure.

The maximum number of lights that a party over burns at any one time, divided by the total lamp hours in 300 days should give not less than 730 hours per lamp. Of course a party may have 50 lamps connected, but nover have more than 10 lighted; if that is the maximum, then these are the lamps to be counted.

Yours truly,

Sout. 15th.

G. P. Lowroy, Esq.

S Broad Stroot, City.

My Dear Mr. Lowroy:-

T onclose your horowith copies of latters to Sir John Lubbock and Thoodore Waterhouse, in reference to the Tusion of the Ediam and Swan Companies in England.

Yory truly yours,

Enclosuro.

Sapt. 15th.

A. A. Go des, Esq. Socty.

16 Oliff Stroom, city,

Dear Sir:-

In roply to your finder of September 18th., I beg to say that I will upon to the Proposition of the cost of tape.

Reserving cutton for outside grapping, I agree with you all that plain uniform culor will look much better than the "barbor" pole" jutturn, and shall we slid if you will choose scrathing that will inserve.

Vory truly yours

1.00

Sept. 17th, 1993.

S. B. Paino, Esq.

P. O. Box, 2011,

· Boston, Bas

Door Sir:-

I have your favor of the 14th, inst, in reference to the brushes on the 400 light dynames.

At the louisville Expansion we have fourteen all dynahos, eight of which carry 400 lights such, and on which we are " usuin the brushes you seem of. I am informed that these brushes work bountifully and the committee polishes. We make all our tests with the brushes you have.

It would be impracticable to use a set of "In brushes on the "In machine. The "In brush is soldered to the trough, while the "I" brush is movable in a shorter trough which is fastened to the brush-holder.

Very truly yours.

So; t. 17th. . .

G. W. Wilbor, Esq.

Corner 4th. & Rodman Sts.

Pall Rivor, Hass.

"Doar Sir;-

"Beforeing to your fiver of the 16th, inst, it would be 'as well for you to mend us a special report on Mall River.

Yary truly yours,

.

Mossrs, Marris & Rubinson,

Room 2, Trust Co's Building,

Hartford, Conn.

Doar Sars:-

Referring to your letter of the 18th, inst., I beg to say that we mean by "Neuco Lights" the number of lights used in a house. It is impossible for a canvassor to get into a house and find out how many lights are burning, but by deciding the character of the house he can make a very accurate estimate.

I send you under nigother cover duplicate mans of Martford, Danbury and Southington, also the Isolated plant books you asked for.

In reference to estimates, we have no available copies at the money which we could send to you, and we are so proceed with work that it would be impossible for us to get them done at once. "I will, however, send you enter a seen as I can get some made."

Very truly yours,

as Firth Aromes.

Now York, Sept. 18th. 1883.

J. U. Mackonzie, Enq.

caro Timo Tolograph co.

Temple Court,

5 Bookman Strout, City

Boar Sir;-

In consequence of the present nature of my business, and many things that I am interested in, I would like to surfender all interest in your transmitter for Empland, yet your reimbursing no any mount that I may have incurred up to this writing in connection with said invention. I am empolled to take this course, owing to my time being so fully compiled, that I feel it is impossible for me to deal with the matter in a manner mutis-factory either to you or myself.

Very truly yours,



Sopt. 18th.

S. B. Raton, Esq. Prest.

Rdison Bloctric Light Co.

City.

Doar Sir:-

T am in receipt of a latter from Mr. Batchelor, and The

"The or dynamos all came to Milan without having the bearing places of the shafts tallowed. They were exapped with paper and then outside of this was some tallow, but not inside. The sea air so rusted them that it took ever two menths to get them to run without heating. They ought to tallow them well and afterwards wrap them with a place of felt that has been dipped into melted tallow.

Armington Engines. The Armington angines came not ontirely together and there were no marks to tell which place boldinged
to each angine.

Invitation . Under the commutator bars we have always put japanned paper instead of sized in the small sizes of dynamos.

I find that in many cases this paper is carbonized and senetimes axen we have noticed nothing with the machine particularly,

23

put mica in thom-now.".

Yours truly,

yale,

Sont. list

F. J. Sprague, Esq.

Hotel Balmont,

Brockton, Hass.

hoar Sir;-

Enclosed please find map of Southington; which requires an electrical determination, according to the red lines. It is to be all pole lines.

Yours truly

Jak.

Sopt. 18th. 1863.

Gustave Soldan, Esq. Supt.

IO4 Goorek Street, Gity.

I am in receipt of a letter from "" Hatchelor in which he says that the "O" dynamon all arrived at Milen without having the bearings places of the shifts tallowed. He says they were wrapped with paper and outside of this was same tallow, but not inside. The sea air so remaid from that he says it took him ever two to get them to run without hereing. He says that with the next shipmant you count to tallow them well and afterwards "amp them with a piece of felt that has been dipped in moltad" tallow.

wrinkle on the major the commutator bars what on the analysis of dynamon, the says that they find in many cases this is carbonized and semetimes from they have noticed nothing they are the machine particularly flusing nice in them now.

Yours truly.

Taky

1883.09 -18

Sept. 18th.

Mosors. Armington & Sims,

Providence, R. I.

Door Sirs:

I am in recoipt of a latter from Mr Nateholov in which he states that the Arministen engine arrived 36 Billin not entirely together and there were no highly to tell which piece belonged to each engine.

Will you kindly havo this matter adjusted in future, and oblige,

very truly yours.

Jak,

Sont Teth

Sociato Electrique Edison,

Paris, France.

Doar Sirs -

I beg to acknowledge receipt of your favor of the Alst. August in reference to electric railway. In reply I would may that it is impossible for me to take this matter up, as I have too made work on electric light business.

Things are "bouning" here in village and city plants.

Very truly yours,

Zns

Sopt. 20th

T. A. Edison, Esq.

Woovers National Retal.

Shanokin, lenna.

My Doar Edison:-

Your tologram came to hand asking for chamicals, motors, scales Ac., and the various articles enumerated have been shipped. The motors were kept back purposely: the rest of the articles should have been shipped but for a blunder, which I suppose I must take the armitt for.

Soldan started to took the non light machine yesterday, but found a creas in the armstire, and when I left the works this morning this trouble had not been fixed, but he presises to let me have a report on a partial test this afternoon, but up to this writing it has not yet come to hand. As soon as I get it I will send it to you.

I saw dowlon to hay in reference to the cable, and he says it is impossible to fitte exactly when they can deliver some of it, and as it is a new thing he is depending entirely upon the factory so to when it will be turned out. If it was an article of ordinary manufacture he could name a time, but says he will push it through as quickly as possible.

1883-09,20

Sept. 20th

,

I was in the control station to-day and Chinned was trying a pair of the new brushes. There was quite some heat from them, and one brush had get burned very badly indeed. When I left, however, the brushes were working a little better, and he was carrying 000 or 700 lights on the brushes from the district and not from the test lass upstairs.

I had a man in here to-day from Pitchburg, Mass. He runs the Thomsom-Heunton business and wants to get up Edison Companies in about ten towns. He came on here at the suggestion of Sins, and I think that when you get to Brookton next week you can make a "dichor" with him. I am to see him to-morrow again. he is one of those real live relieves, and he would have closed a contract with no on the spect. "Of source such difficulties as torse to he aget to be talked into."

T hope you are enjoying the bad grub and the "twofors."

T will go to helmonice's to-night and dat a double sized dinner;
so that you can imagine you have had part of it.

I onclose you the Intest emanation of the Engineering
Department. Itwis a most bountiful piece of blue printing, and
will no doubt go a long way towards changing you on in your

1883-09-20

fonely way in Shamokin.

Yours very commy

Shamokin

Sont. 30th, 1883,

Thomas. A. Edison, Enq.

Teavers Metional Metel,

Slomokin, Ponnal

By Door Educont-

Sames writing to you this afternion I have seen Soldan, and he says that he has tested the Son light machine. He ran the armiture at 1100 revolutions and get 200 amperes out of it at 113 volts. The armiture was perfectly each at the time he left the shop to come up to see me, and to machine had been running 1 2 hours. He seems highly elated over the result of the test, as he says it has seem out exactly in accordance with his calculations.

Yours vor/ truly.



Sopt. Alst.

F. J. Spraguo, Esq.

Rotol Belmont,

Brockton, Mass.

Door Sir;-

Your two vary longthy latters of the lith, and 20th,

With relation to the extra tubus desiredete be laid by an carrison in place of the pold Theor proposed to be put up and provided for in his contract with me, I have under instructions. I have not seen as it is the man indicate. I have also ordered in high streets as it ionks may indicate. I have also ordered from Mr. Krugai, at the instance of in looks, 30 lengths of two wire agriced tubes for use at brookton. I understand that these were ordered on your suggestion. In your little of the 30th, you says it is desirable to instally thirde wire service, but inampuch as the order has been Managed for two wire service, the impossible to cancel it without considerable loss to the Tube Co. or Mr. Mr. men. I think the matter had better stand as it is the present time, namely, to use two wire service as much as reservice.

The connections devised by Mr. Johnson have been ordered from Hergmann & Co., and will be sent forward to you as quickly as possible. The Pooder safety catches have also been ordered for you and these will be forwarded as quickly as they are turned out. The switches asked for in your letter of the leth, have also been ordered. The feeder indicators are also being pushed forward as quickly as possible and will be sent to you at the earliest mement. The three house changing switches which you refer to were expected but the order was subsequently cancelled, and the switch designed by Mr Andrews will take it place.

With relation to lawrence, the first part of my contract, known as Order No.1, and which I as now putting in, calls for two 400 light machines, later on I am to put in two more 400 light machines, the "K" machines which they new have acting as a spare. If they want 300 light machines limit to in Lord on this subject by this mail.

Your report of his wiring corruborates what I have heard from other sources. I will go into the question of the switches and wiring equired at Lawrence by you and have the thing fixed up so that you will have no trouble when you come to do the work.

I cannot understand why in one letter you suggest the use of two wire nervice and in the next of three wires. Acting on your first letter as above stated and under Mr. Jonks orders.

we have endered 25 or 30 lengths of two wire services, and propose using the tubes which were sent on for three wiresservices to extend the system as above referred to...

The reason that things are shipped to in hich is that he pays the bills. I should have no you could easily arrange with him what cases you are to open, thankeled, as almost all the stuff that comes from Bargmann wints is for your use.

Exact account alloudd be kept of the time and material used by Johnson in wiring the various houses that he is engaged on.

Vory truly yours,

Tab.

Sopt. 21st. ...

Comitato por la applicazioni dell'ellattricità Sistema Edison, via Manzoni, 13 A, Milan, Italy.

Dear sirs!-

Referring to your several cables and my cables thereto confirmed alsowhere, I beg to inform you that the reason that the 400 ampere dyname (they are known as the "Pr machine) has been ready to ship for sease weeks past. The steamer which should have taken it ran aground on the long taland shore and has only been get off Within the last few days, and it is now discharging its carge preparatory to taking a return carge for the Mediterranean.

Immediately this or an earlier vessel sails, I will advise you of the shipsont of the machine.

with relation to a "6" dynamo. I have several in my shop, practically completed, but it will take he mome forty days to get an Armington engine to attach to one. I therefore cabled you "That I could ship one forty five days after order if there was a stounder sailing, and my price for some would be \$0,250., free on board in New York, laysont to be made here when dyname is completed at the terminant of the Ansenia Brass & Copper Co. I added

...المالية

to my cabbe that they desired fagment for wire ordered by you on shipsent in New York or order will sell you the wire at the nate partice which they ducted to the Paris Company hashedy, 37 cents per pound, and youn bill will successfully the applicable in Res York, they will hill you of dissount Company or order the selection of paying cash, in Res York, they will hill you of dissount content to the is presidely the arrangement made by the discount of the Societa Electrique Edison, when they were order the Trem the Alessuar Copper will the Trem the Alessuar Copper will the the Trem the Trem the Trem the Alessuar Copper will the Trem the T

Notowing to your lotter of the Ath September, I have ordered the circuit breaker and uprights for you as requested therein. They will, be shipped from here in about ten days.

We have now made a now machine giving 100 lights, and which I shall be glad to sell you in quantities of not less than five (3) for \$400. a machine, F.O.E. New York, payment to be made in May York on presentation of the invoices and bills of lading to your agents here. We are now making a 25 and 30 light machine, and also a 200 and 300 light machine. Our experiments on those machines are practically completed, and as soon as we have models out we shall be glad to quote process.

We have written to Mr. 7206 With relation to the new recording ampere meter. We have not turned out any new meters; the this july alteration being a cheapening of the case, which is now made.

made of tin instead of cast iron.

We have ordered for you the 3,000 lamps requested, and they will go forward in the course of a week or so.

Our impression is that your orders should come through the Societe Electrique Edison, of Paris. Will you please communicate with them on this subject and savise us with relation to

Yours very traff?

Tall

Sopt. Alst

3

Sociate Minetrique Edison,

Paris, Pranco.

Door Sive:-

Referring to our cable correspondence dissenter confirmed, patent Mo.25 is of the great importance in this country to allow of being dropped in Europe. It covers the fundamental principles of our automatic regulation, and under the circumstances our company here could not give their consent to the dropping of the patent.

Vory Truly fours.

Tall



Sopt. 21st.

Charlos Batcholor, Esq.

Paris, Pranco.

Boar Sir:-

With relation to cables confirmed elsewhere, I beg to inform you that the prices given by no for fibres were in accordance with instructions which I had received from the Edison Lamp Co Two or three days later, after talking it over with Mr Upton, it was arranged to quote a lower price. When your letter came to Insul? stating that Upton had given you a price hower than that middined by me or the Lam Pactory, I at once communicated with the Lamp Pactory, and decided, after a consultation with them, to send you the cable above referred to.

As to the drawings for the 25 and 50 light dynamos, although the experiments on these machines have been made, we have not as yet got the models out, this is done drawings shall be soft to you. The drawings of the 100 and 400 light machines wil, "I think, he sent to you by Tuesday's mail. The changes at the "Machine Works have caused now delay in getting out these things, which you must accept as our apology for not sending them to you

4/11/1

orlior.

We yesterday tosted the 300 light machine, which gave 300 ampercy at 112 volts and the armature running at 1100 revolutions. This is a machine with one pair of cores and will be sold for demorphere about \$1,000. We hope to send you drawings in about two weeks, or may be a little carlier.

I cabled for your proxy for a mosting to to vote on the an inerdage of the Gorpany's stack from \$720,000, to \$1,000,000. Thinking that the proxy would not reach how it time I cabled you this meyning to sign a Power of Atternay authorizing me to vote your shares at any meeting of the Eight company, and requesting you to have Consul Valler centing difficultative, so as to enable me to go on your power of Atternay. I shall hope to get your reply to

Very truly yours

Tall

Sopt. 21st.

Deutscho Edison Gosellschaft,

96 Leipziger Strasse,

Borlin, Germany.

Doar Sirs:-

Referring to our cable correspondence elsewhere confirmed, I beg to advise you that your cable to me of the 14th. September was unintelligible, and I cabled you to that effect on the same day. I have no cable at this writing and as anxiously awaiting receipt of your letter explaining your desires in relation to loo light dynamos.

I have ordered for your account a 13 x 11 engines in compliance with your cable to be of the 10th. "I has expecting to send you foundation plans by the next hall, at which time I hope to be able to advise you at what which the engine will be shipped.

With relation to the 25 and 30 light machines, my experiments on these machines have been finished, and I will push forward the models as quickly as possible. Immediately they are ready, I will ship them to you and advise you of same.

Vory truly yours.

Tary

E. H. Lord, Esq. Trons.

Lawrence. liass.

Doar Sir:-

Your postal of the Efth, inst, came to hand this morning.

The small engine, that you have, was to be used to run th the "k" machine now used in your station, and my contract does not call for the providing of an "H" machine for this purpose. I can supply you with two 200 light machines. in the course of about three weeks or a month. Mountaine I shall be very gladdte loan you two old "I" dynamos, providing you will pay the freight on same each way. If you decide to use two dynames on the small onging you now have. I presume it will be necessarybfor you to not another pulley, as if your 8 2 x 10 engine is of the same construction as those we ordinarily uso, it has only one pulley on. Will you ploase lot me know your wishes in relation to this matter?

It is very desirable that you should order from us sufficient service tubes to connect the houses, which you are now wiring, on to the mains. Will You please send me a general order to supply those, as I think it would be better to leave it to the Electric Tube Company's ontion as to what they should send to Lawronce for this purpose, so as to obviate the delay consequent

iffor sending an order for each entries that you may require put in.
If you will please attend to this matter immediately it will
greatly facilitate your work, as the services can be laid while
the mains and fooders are being put in. If this source is pursued
the expense will be less than if the services are left until the
whole system is completed.

In Rich writes me that it is desirable that he should put in the foundation for the 14 2 x 13 engine and the two me dynamos, which come under order No. 2, at the present time, in order to save us expense when filling your second order. I promise there is no objection to our pursuing this course, previding that we carry the expense of this work until such time as you should give us an order to finish the whole of the work specified in our contract. Can you give no any idea as to when you are likely to order the completion of the limit, as I am at present out of "M dynamos, and would like to know when you win are likely to order the completion of the limit, as I am at present out of "M dynamos, and would like to know when you win will "P dynamos, and would like to know when you will are the probably call on me for them for this purpose.

Vory truly yours.

P.S. At this writing It is impossible for me to give a firm price for the see light machines, but they will probably cost about \$700. each, but ax as to this I cannot tell at the memont.

as I have not got out my models at this writing.

Sopt. 20th

Paul D. Dyor, Esq

Empire House,

Akron, Ohio.

Doar Sir:-

I have your favor of the setch kinst, and help you will be able to capture the hotel man who has gong wrong on "storage batteries".

on Saturday night last to started up at Shomedin.

In Selson returned this morning and shome very highly of Shomekin

as a place for lighting and the great possibilation of making

money there.

On Monday night we shall start the Browkton station and a wook or two after the Lawrence station. 'So you soo things are programming protty lively up here.

Thope you are faciling bottor, and would suggest that if you are at all sick that you should slackon up a little on the

very truly yours,

8

ont, 39th.

Georgo W. Bliss, Esq. General Supt.

Chicago, Ills.

Doar Sir;-

Referring to vote favor of the 17th, inst., which would have had my attention earlier but for my absence from to m at

Shamokin, I bag to state that the gentlemen who reported to me about the Palmer Mouse was a navestar of our company for two years, and thereughly understands the difference between an are and an incamposent light, and he positively states that our lights result quite often. Inasmich as he bearded at that hetel for sitio time, he must have head ample opportunity of knowing exactly what,

Yours truly

Jaq

7. J. Dull, Esq.

16 Barlot Stroot,

Harrisburgh, Ponna.

T had to lower shawkingto go to Brockton to start a station there. The Shripkin statuen was started on Saturday night AMAT think you had bottor wait about ion days until they got some considers connected and then You hight go up there with your friends and see how the thing runs.

Sopt. 30th.

We ile Wich Rea

care Edison Electric Tir. &

. Jawronco, Mass.

Doar Sir:-

Mr. Edison has just retained from Shamakin and reports the starting of the station there in good style. He is very much pleaned with everything there, and says that he looks forward toming Shamakin station being very successful. He maked me to draw your attention to coveral points, which he made a note of while in Shamakin. He says that the dynamous should be leveled to particular will not run to one and. When place in piping bearings he thinks you should put an extra says so that a ruther head 4 inch in dimention can be just on in and taken, so that if the oil cup is taken in the house of the pump should be afterwarded that it can take stoom from them believes, where we will not pump should be afterwarded that it can take stoom rows them one believe is used at Shamakin it was only possible for the pump to take stoom from bottler.

Yours truly.

Sort meh

P. B. Shaw, Dag.

Walliamsport, Ponna,

Doar Sir:-

Noterring to your undertaking to dispose of the bonds of the Samuchin Company, I shall be glad to hear from you as to exactly what arrangements you have used for the disposition of those bonds, inassuch as at is my desire to make an immediate settlement with the Shenckin Company.

Yours truly,

Tell

Sept. 33th. 1988).

Guntave Soldan, Esq. Supt.

104 Search Stroot , City.

Boar Sirt-

ortra hele on dynamo bearings an inch or so from the oil cup with a serov plug for passing water to bearings through a floxible tube, and thus render it unnecessary to unserew the oil cup in case it should be thought desirable to use water on the bearings to provent heating.

Yours touly,

Sopt. 20th.

Hosars, Bergaann & Co.

202 Avonuo B. Gity

Doar Sirs:-

no not tie a knot in the floxible cordenine of the notice in future. You have been cold of this twice. The support wire attached to the mines in the Ai light meters are too long. I think you should cut off about 3 or a mach, but you can find the absolute lingth by testing. The weeden plugs inside meters are jupomed wet and stid so blots we cannot jull them out of the model. They plugs should be japanned and dried before juiting

Yourse Louis

Tare

Sopt. 39th.

9

J. U. Hackonzio, Esq.

care Time Telegraph Co.

Tomple Court, dity.

Doar Sir:-

Can you give me the recipe for the duplicating ink?

I want to got some made for office use.

Yours truly.

Tal

Sopt. 20th.

3

John P. Rogova & Co.

62 India Square,

Boston, Mass.

Door Sirs :-

I have not get on hand this moment the recipe for making my duplicating ink, but I have written to the assistant who used to make it for me to see if he has get a copy of the recipe. Desentately I hear free him I will communicate with you,

Your lotter has remained unanswared since its receipt, during to my absonce from the City.

Yours truly,

Talp

J. L. Groon, Esq.

Tahon City, Jalo Tahon,

Placer Co. Cal.

Doar Sir;-

Referring to your inquiry in to meters, I beg to mente that we can furnish you with a meter, but I do not see exactly how you could use it, as you say nothing about where you propose feeting your electricity from to run the motor.

Yours truly,

Tall

One Milling

Sopt. 36th

3

Pranklin Fallon, Esq.

115 Wost 5th. Stroot,

Josefville, Gol.

Door Sir;-

Referring to your favor of the 19th, inst., An Edison desires no to state that he has not get a machine which will separate exide of iron due to reasting iron pyrites. His michine only separates magnetise, but undoubtedly such a machine as you desire could be designed if the business promised to be of sufficient magnitude to justify of the work.

Yours truly.

81

Sept. 20th

William F. Browstor, Esq.

Sothern Notel,

St. Louis, No.

Doar Sir:-

Your lotter of the 22rd, inst. come to hand this sorn-

I am vory sorry that I did not soo Captain Poffinger.

I am doing nothing about danvasaing New Orleans. Will you please
find out from Captain Hoffinger exactly what he expects done in the
matter, and let me hear from you of the subject.

I trust that on will be successful in putting through the St. Luius Company. Par sometime passed we have had designismon engaged upon the detailed drawings of the station there, so that immediately the matter is closed up we can proceed with the work.

The Jouisville map is a very heavy one to male, but I am premised it in about five or six Mays, and I shall then want some looked up for control stations.

Nothing has been diffe about Plewellyn Park lately.
I will look the matter up and see that it is pushed.

We can take care of all trouble from water or other causes at Mey Orleans.

Yours truly

Zak

Sout. 30:

3

G. P. Britton, Esq. Socty.

Don't. Public Charities ' Correction,

GG Third Avenue, City.

Doar Sir:-

near is busily assessed in making the plans and estanates for lighting Mart's and Ward's Islands, and we shall hope to have them in , such shape as to be able to send them to you in the course of a few days.

Vary truly yours,

Tak,

Sopt. 30th.

Charles Establish, Esq.

Paris, Franco.

ly Doar Batcholor:-

Your lotter of the lith, came duly to hand.

To cabled to you for \$3,000, because we were in a heart of a box, and hills were on the way equalling that assume.

Since the mensy was received, heleven, we have given the Societe Industrials credit for the every direct on the fibrus, which leaves only about \$200. In their rave which cannot be considered any great resumt; as the second with the other way on my books.

See months at a time.

Vary truly vours

Tue

Honry A. Clarko, Raq.

Erio, Penna.

Doar Sir;-

Your favor of the list. September has been referred to no for reply.

The estimate for the installation of a sensual station plant at Eric is put in as a whole and is not to be accepted in lots. The tender is made in one research, the items being simply given for come convenience and graduate as to what makes up the estimate. If the Eric Company require any items struck out; I shall be very glad to consider the matter.

It will be quite impossible for me to get to Erio to attend the meeting. When your company is erganized and they are propared to make a contract for the installation of a plant, my private Secretary, Mr. Insull, will go on to close the matter with them, unless it can be done by correspondence.

Vory truly yours,

Las

Sopt. 26th.

S. C. lynch, Mag.

bu Washington Stroot,

Chicago, Ulls.

Don't Sir:-

Referring to your favor of deptember 24th., I shall be very flind to look into the matter of the tersett Conduit, and will talk the matter ever with Mr.J. R. Burdick which he calls to see me.

say

Sopa. Both.

-3

G. C. Sims, Esq. Sup.t.

Armington's Sims Co.

Providence, R.

Doar Sir;-

Mould it not be a good idea to have two extra valves and rings for each of our central stations? If so, would the pistons fit? Now about the gara Rabbit shelves for all engine bearings, concerning which I make to your.

Yours truly

Tak of

1883-09-27

Sept. 27th

H. M. Doubladay, Esq.

Edison Exhibit, Louisville Exposition,

Jouisville, Ey.

Doar Sir;-

. Will you ploans supply me with the information which

Hr Clarkosdesires in relation to the cards sent by you, returning the cards at the same time.

Yours smuly,

Enclosuro,

3

Charles Satchelor, Esq.

Ivry-sur-Soine, France.

Doar Sir;-

I have near you by this mail a set of blue prints of the 100 light manhabe as we are building it at the present time. I sea thinking of using only one pair of cores, and should this change be made I will forward you blue prints of sease. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 (*P) light machine out in the course of two or three days, when I will, send a set of blue prints of these.

Vory truly yours,

Tall



Compagnio detinontalo Edison, Paris, Franco.

Doar Ars:-

Your favor of the 10th, Inst. case duly to hand, and in reply I would be to state that it seems to see that the action of the Russian authorities with regard to set No.2 places your Company in a position to remody in Russia the mistakes which have been made in other countries with regard to this important patent, by discarding the great mass of uninportant matters and confining the case to the points which experience have shown to be of great value. I consider this point to her-

Pirst. The placing of an incandescing conductor in an exhausted chamber made entirely of glass with leading in wires concoaled into the glass, and

Socond. The driving out of the ineandescing conductors of the occluded games by raining said conductor to incandesconce during the operation of exhausting the lump globe.

The specification describes lumps of earbone as well as those of motals, and care should be taken to make it clear that the mixing are intended to be accorded without regard to the material

or which the incumescing conductor is reads. The matter I think should be made the subject of one division. If a second division is decided upon, the meter connections shown in figure 73 should be made the subject of it since. Theoretical that arrangement as the next in importance.

The following should also be covered. The arrangement coll
of a noter shown in a shunt around a definite resistance in the
main line and the use of a compensating resistance in the circuit
with the cell. The meter shown in figure 74 could also be in-

I see nothing further of any considerable importance in the case which could probably be putented in Russia;

Yours very truly,

Taly

Sopt. 37th

T. W. Sorrell, Esq.

.140 Wassau Street, City.

Door Sir:-

Referring to your letter of the 20th, inst., will you

"please let me know what the first account in the Nichelson case is?

r truly yours,

Sept. 27th.

3.-

Sociate Electrique Edison,

Dear Sirs:-

The an in receipt of some favor of the with August, and have cabled the Milus company to send he a cable remittance for \$3,000. to cover the amount of my account against them, loss the four regulators and the Armington & Sins engines. I have not, however, at this writing received any reply, and accordingly cabled you to-day to this effect, as confirmed elsewhere.

I have received from the Milan Company an order for lamps. I think it would constant for facilitate matters, and be certainly a convenience to myself, for all orders of the Milan should come through the medium of your office. Will you please endeavor to arrange this for me, and greatly oblige.

Yours Vary tri

Jak J

Sopt 37th

W. L. Carrison, Esq.

b 0. Box 3047

Boston, Gass

Boar Sir:-

He Edison and myself will leave for Brockton on Saturday night, it being Br Edison's intention to start the Brockton station on Honday night.

I propose to return to Nov York on Tuesday, and if you can conveniently arrange matters so that I can bring back with me a check for \$15,000., it will be a cry great convenience to us.

Yory truly yours,

8

3



Sont, 37th.

Honry A. Clarke, Esq.

Erie, Fonna.

Door Sirt-

Your letter of the 24th, September has been forwarded to me at the above address.

If you have any enquiries to make about my estimates and will address them here, you will always got a prompt reply.

I stay such a short time in a place that it is solden that you can recton on catching me.

As I wrote you yesterday, the bid made toyyou is made as a whole, and I should hardly feel disposed to have it cut up, although of course I should be glad to consider any proposition that the Rrio Company may have to make. Our experience, however, in doing this has so far been very bad. At Shamekin, where the local Company undertook to do a great deal of the fort themselves, we had a very great deal of trouble, and our Superintendent had to gy there to superintend the work, notwithstanding at was the local company's place to do it. The followy in consequence of the source they pursued was very great, and decided me to refuse to take contracts in the Cuture, unless the whole of the work was left for

Your truly yours.

Zall

Sopt. 28th.

3

Sociote d' Appareillago Electrique, Geneva, Switzerland.

Doar Sive;-

T have sont you by this mail a set of blue prints of the 100 light maghine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of some. This machine is known here as the "To machine.

Thorn to have the drawings of the 400 (40°) light machine out in the course of two or three days, when I will send a set of blue prints of those.

Vory truly yours,

Taky

Sont. 38th.

German Edison Gesellschaft, 96 heipziger Strasse,

Borlin, Gormany.

Door Sive:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I as thinking of using only one paxy of cores, and should this chan change be made. I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 (""") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Vory truly yours,

Gosses. Harris & Robleson,

Room J, Trust Co's Building,

Partford, Conn.

Dear Sirs:-

I have your latter of the 37th, inst., in reference to the Martford and Continueton estimates which I precised to send you on the 30th. Hy engander, We Composil, has been ill for the last four days and as still continue to his bed, and it is impossible for as to tell when he will resume over. His absonce from the offices was the cause of the estimates not having been forwarded to you. I regent the circumstances exceedingly, but as you will see it was a seator ever which I had no control, and I may add was totally unlocked for when I made the pressure to send the estimates to you on the 36th.

I am obliged for the information you give in reference to Bridgeport, and will verer that matter to an Butchinson of the Taulated Company.

Verybtraly vours

Private Secretary

Priend Conkline:-

I so very desirons of obtaining a contract to light one or two of the City Institutions where I am cortain I can affect a considerable saving to the city and give better satisfaction.

Their gas system being empecially deflective on Harts and Maris Telands, for which I have made a tender. Would you object to giving me a letter of introduction to fir mass one of the Commissioners having such lighting in charts that a statement that we are reliable pounds, our statements are to be relied upon and that we will undoubtedly perform our work in a satisfactory manner of course they may be reasonn my you would not like to do this, if so all right.

Vory truly yours.

1883.09-29

lept. 39th. A

Charles T. Haghas, Esq.

J. S. Hotal,

Nowburgh, N.7

Donr Sir;-

I regret to say that through the illness of my enganer, in Campbell, who has been off daty for the past throe days, and it being impossible for as to tell when he will again propert at the office, the estimates for to-soungh have been delayed. I set doing my best to not there exist for you and will send then at the carliest possible meant, but with this explanation you will no doubt receiving the directions of area in and the great pressure under which we will have to wird in order to keep pace with our business during the daybell's absence.

Very trilly yours,



S Sopt. 29th.

Paul D. Dyor, Esq.

Empire Nouse,

Akron, Ohio.

Dear Sir:-

I have your favor of the 37th, inst. acknowledging

In reference to the latter, I did not intend to alter the form of four conversing, and you can use there as blank books if you choose, but in sending them to you I thought you would probably be able to utilize them to dvantage by entering the lights on the books first and copying them on to the form afterwards. You can however, plans by our pair.

Very truly yours,

October let

á

Charles T. Hughes, Req.

W. Hotel,

Newburgh, H.Y

Doar Sir;

I have your latter of September 20th, in reference to details of billding the central station it Headurgh. Un compbell, my orgineer, who candide the estimate for this building, is still confined to his bad, consequently I am unable to send them. The additional estimates are also being delayed for the same reason but all of them will go forward to you at the carliest possible

Vory truly yours,

Iaq,

October 1st.

Charles T. Hudies, Esq.

U. S. Hotel,

Newburgh, N.Y.

Door Sir:-

In Risen and En Tashill are both in brocken and will probably not be back until the bridge the week. Campbell is still "laid up", and I have get my hands so full that it is impossible for not to touch the Newburgh estimates, at laust for a day or so. I will do all I possible can to send them to you, but you see the fix I am in and the difficulty of meeting your requirements with the despatch which generally characterizes our business.

Vory truly yours,

October Sad.

Samuel Insull, Esq.

Motel Belmont,

Brockton, Hass

Malgar Insull:-

I have received all your numerous communications, and this morning ment down to Bergaman's to see about pressure indicators and netwys.

I fand without wiring Androws that he requires eix pressure indicators of the new style or five of the old style, as he took one of the old style with him when he was here. I ascortained this from a letter which arrived a day or two age and which was easeng the bundle you gave me. Flein or somebody down their mixed our meter orders all up, but fortunately I get there before anything serious had concurred. As it is there must be "returned from Brockton one 30 light meter. We sent five a light meter for many to Shamohinand he sent for Willight meters in excessing to their other values of our order to Lawrence. I will have all these returned thought we had mixed our orders up, but upoh alalyzing it there withing to found that they had made the mistake themselves, aid, "consequently, walked into a "shipper".

2

T have seen Bradley this afternoon and he goes to Brogkten to-night. I have given him two hydrometers and he is getting all the tools, necessary for finding out the bugs in the conductors, from Chinneck. He is going to Brockton by rail. The Shamekin hydrometers were sent seen whole ago.

The forming to the formal state of the fooders by Sprague. He stood beauth in while I wrote the orders for insterial which he required, and these were not nontioned. I, however, find that there were only is instead of I2 (as you stated) of the old style feeder switches ordered for irrection, and have consequently ordered 10 of the new style plug switches from Hergmann to be shipped at once.

Thays ordered 100 Johnson commentions in accordance with your letter, and have given proper instructions as to the shipping of 50 of them. Reriganin has on hand at the moment 50 of these connections from the last let ordered. These go forward to lawrence at once.

In reference to test bank invitation, Hergmann told no that those were sent forward with some other material to Sprague's address on Saturday. On Henday I told him to send two more, as They had probably gone astray, although it sooms atrange how they

could have done so. I trust that by this time they have been recovered.

I received your Godsond in the shape of \$3,000, and have had some placed to our credit without meeting any opposition at the bank,

I have had all the baby stuff packed in ice and forwarded to the address you gave use. It will be a "cold day for you" when it gots there.

Referring to the macunt which I placed in the Pall River of this tor "Tools" for repairs to underground conductors", at the time I made up the Pall River estimate I had only one bill from Kruoši for tools sent to Brockton, and I was under the improvation that this included all the tools which had been sent there. I should, however, have looked more clearly into the matter and I would have soon wived I hade the mistake. Can we not supply tools to the amount of our estimate for same, and if they want more they can purchase them? I say this merely as a singlestion to try and help myself out of the semane, but privately my opinion is that we will have to supply the whole lot for about one half the price, and that if is through a desired built of mind that we have got to do it.

I saw in Johnson that morning at Borgmann's, and I told him about the success that attended the starting of the Brockton station, and also said that you informed me that Each deserved typesendous credit for the work The had done. He Johnson wanted to I new Where Sprague crase in and Borgmann told me to tell you.

Well never maind what he told me to tell you, it would sound raight better over a telephone!!

I have not yet heard of your closing the Fall River contract, but I hope to be made Ware of the fact before going to bed to-night.

Everything here is going on all right and there is nothing special to bring you back if you are not fully prepared to come.

Rughes just came in and says he is going to stay right."

here until he gots the Nowhirgh estimates." I have not had a chance to touch them, and I do not know that I should care shout doing it if I had. Campbell had the matter partly in hand, in fact nearly finished it, and If I take it in hand now it will be necessary for me to go through it right from the start, and my "hands are too full to attempte anything of that kind. I expect "Campbell will be here in a day or two. I wrote to him last hight and fractically told him that he must some soon, "notwithstanding

the advice I gave him towards the end of the letter to the effect that he should not go out of the house until quite well. I tried to convey to has the idea that the heartment could not run very well unless he was there hasself in about what he was doing as to enable them to know a little about what he was doing as to enable them to know a little about the business in his absence. As it is now he carries meet of the information which I want to get at, such as details of the construction of the station, in his boad.

T will got the bills of lading from Hayward, Perry a

Prancklyn to-night, and been unable to obtain them before that

All have the money in the bank to-motros morning.

I am delighted to Form about the success you have not

I will go thoroughly through the Lawrence orders, and "
"see that there are no "hitches" when the time comes for starting
up there.

I onclose two lotters from Mr. S. J. Mc. Cutchen. Upon the arrival of the first one, which is the double paned one, I sent him a note saying that Mr. Milson was in Brockton and giving him Mr. Edison's address. The second one is a reply to my note, "above your signature. I do not know whether they are of any

.,

great importance or not, and as I have no months of

Zete

Telephone - Fareign

ons to esitto

Edison Tolephone Company of Europe, Limited, Mew York, October 2nd, 1803.

To the Directors of the Edison Telephone Co., of Europe, Limited,

Referring to your letter of September

"Tath, in which you achievise he to settle state colonel coursed on the best tense possible on to the division of the 173,000 shares of the Edison-bover-Bell Telephone Consent of Europe, limited, I have to say that I have "fully discussed the matter with Colonel Coursed with a result that he is not sectified with any other than an equal division for the reason set forth in his letter to this Company, dated July 30th. (Extract Annoxed)

I am myself approache to settling with golongl coursed on that basis, but I find that I am personally interested in some of the sharps that he will requive, arising out of the fact that he and I joinely contributed in the Vale to the Satson-wower hell Telephone tempent of several deshibition which did not belong to the Satson Telephone Company of Europe, Limited, namely, Dommark, "Sweden, Norway and Portunal, and because of this personal interest" I may unwilling to take the responsibility of alone settling with Colonel Gourand as actionized by Jour letter above referred to.

I have therefore to request that you will be seen smooth to sign the enclosed letter, if you approve or said, and return it to me at your early convenience. The

October 2nd.

head to byer, say

Amire Pager,

Akron, Ohio

Bear Sir:-

I am in receipt of your several favors of the past yook, and I am sending to your Address twelve now estalogues, and I would impress upon you the measurity of using those very judiciously, as they seek I combs spaces.

in Stuart has been here for the past week obtaining information, and I think we have pastisfied him on a great many points about which he was in doubt, and I have reason to believe that affairs in this will be pushed to more advantage new than they ever have been before.

We are much obliged for the way in with you keep us posted as to the workings of rival companies. I think that the wave you speak of will soon summence relling through this, and we it is already assauling very fair duadrisions in the Mast, and we anticipate to do good work through this in the Spring. It is rather late to decisions work there now, as in a few weeks frest will set in.

Yory truly yours,

SI

october and.

P. B. Shaw, Esq.

Williamsport, Johns

Door Sir;-

I main receipt of your favors of the Mith. ulto., one addressed to In Mison and the other to myself.

In reference to the former I would may that we had no such arrangements with in Hallon an you mention. We were to run the station for thirty days after it was ready to supply light; we made no surcents to run it for thirty days after a new wind was supplied. I will, however, attend to this matter when I meet you on the oth, and. I can foreste nothing new to prevent no free looping this engagement.

very kruly yours,

SJ

October 3nd.

A. Stunet, Roy. Socty.

Cincinnati, Ohio

Door Sir:-

I am in receipt of your favor of the Morellato, and have to-day sont you under assigned sover the chart of Haddlatown showing the total member of lights in the district ranked off, the average burning of witch amounts to 1973 lights for four hours and fifty nine minutes.

I also soul to. a form of agreement between ourselven
and the local company. In each case the payments are as follows:

25 of the total assumt of the contract upon the aigning
of the agreement; 36 of sizes when the installation is ready to
supply light, and the resulting the after the installation has
been in condition to supply light for thirty days.

Tousting that this will most with your requirements, I

Vory truly yours.

J J

Englineage

Gatober 2nd.

John R. Campbell, Enq.

caro F. B. Shaw,

Williamsport, Panna.

boar Sir;-

I am in receipt of your coveral favors is reference to parmits and concessions for running our lines in Williamsport.

I consider that you made a matchle when you first went to filliamsport in not finding that definately what the idea of the Villiamsport Occupant was in reference to your obtaining those permits. As it is they first decided to obtain them themselves, and after delaying you in Villiamsport reconsidered the matter and allowed you to go should with the work which you were sent there to do. This matter will prove very expensive to us in comparison with what it should have cost had you gotten through with it in a reasonable length of time.

In future it would be well for you to sound local authorities to better advantage than you have done in this case and try '
to obtain their ultimate ideas from the start, as we cannot afford
to allow you to wait in each place an excassive length of time, in
order to allow the companies there to change their minds \$\rho\$ half
a dozen times.

I will send for some Molley either to-morrow or the next

tay, with instructions as to whore you are to go next

ory truly yours,





Thite Plains, N. Y.

my Sear Compbell;

T got your talegrow this morning talling us to make allowance for makes in the construction of the Mail River building. Inaggeth as the ground is of rock, we have made allowance for the necessary excavations, and it will havely be possible to drive place through such a substance.

Bughos is still asstating additional astmatos for Rosburgh. Those I as unable to send his as I have not get a map which is proportly marked. You will resember that one of the feeders was sub the a certain street and run around towards the top of the map.

Harris a Robinson continue to "Kick" about Southington,
I hope to send these Hartford to herrow.

the Edinon and the thoull are both away and that not be back until the end of the week, and I have no take to propare estimates.

T have got all the plans of the west Shore & Buffalo.

buildings which we are requested to bid for. The Ohio business

ctil remains in abovence.

2

I morely soud you this to lot you know how we are getting along without you and to illustrate that your very valuable services are missed. I hope you are such botter and that nothing serious has developed in your case, and would impress upon you the advisability of not coming out of the house too soon, as this is suictured a fatal mistake made by year follow invalids.

bron no a line and lot he know how you are getting along.
Sincorely yours,

are Fali

Octuber 3rd

-

7. S. Andrews, Enq.

Masional Notal,

Shemokin, Forma.

Doge Str.

Poterrand to your favor of September sith, in reference to pressure indicators, I beg to say that I have ordered forward six of the new style pressure indicators to your address at Shamolin.

Regarding 30 candle power lauge to he has a company want any of these they can obtain them by ordering through the light Company, as you understand all orders for lauge must be submitted through that source.

Yory truly yours,

8,

October 3rd

.

G. C. Sims, Esq. Supt.

caro Ammington & Sins Co

Providence, R. T.

W. Qoar Sins:-

the office has sont you to-day a chock for 31,375., which you will receive by the says mail as this letter. I have also sent to Edison to-day a note for 31,375., dated container 33nd, and running three months, bringing at due on the 33th. December. I have requested Mc Edison to sign it and would to you associately he gots it, and would suggest that you telephone him about claven o'alow to-survey at the Brockton central station, and ask him whether he has sent it to you, and if not, request him to do so immediately. This will insure your getting it.

If you will sond no a momorandum of the cost of the discounting, I will sond you a check for smap.

Vary writy yours,

81

October 3rd, 1883.

Gustav Soldan, Esq. Supt.

104 Sourck Street, Caty.

Door Sirt-

The Electric Tube Company will ship you in a day or two a B tube junction box to be finished. Please push this through with the utmost speed, as the box is for Jawrence and a delay would be very serious.

Yours truly,

Sol

ctubor Srd. S

W. S. Androws, Bag.

Shomolin, Ponna.

Door Sirt- ..

Your latter of the lat. inst. to En Insull, enclosing statement of account, has been received. I will have the latter checked and advise you as to the Femula.

T received a telegral to-day from Un Insull, who is at Breekton, stating that he had authorized you to draw on us at one day'd sight for alon. This I presume will struighten out your frienders.

The Brockton station was started with great success, and un insull advises no that everything is perfect in connection with the building.

very truly yours,

Da allot



W. H. Dwelloy, Jr., Esq. Troas.

Edison Electric Illuminating Co.

Pall Rivor, Hass.

Doar Sir:-

T boy to hand you horosith an estimate for the eriction of a central station plant at Fall River, assuming to \$41,000.00.

You will notice in the entirate that I have covered the point requested by you, havely, that the stack should be put in large enough for the boiler capacity required for 4600 lights. I have also evided in the estimate that the vater connection is to be taken from the river, in Schlitten to the connection of the station with the street mains.

I further enclose you two copies of an agreement, addy excepted by no as 19: Edison's Power of Atterney, and should be glad if you will return one executed by Nr. Dow, as President, and yourself, as Treasurer, together with a check for 34,180.90, being ten per cent of the assumt of the estimate payable on the centract being signed.

A blue print of Pall River neat you herewith forms
Edifibit A to the centract and the detimate Exhibit N. These two
should be attached to the copy of the centract which you retain.

With reference to the details of the work, the reor thinbers shall be two inches deeper than those at brockton, and planed in compliance with the suggestion of in terms Bordon. The plant will of the same character as that at brockton and the work finished off in the same style.

In the blue print of the central station, which I send you herewith, you will notice that the buildrs and engines xxix have been turned around as suggested by you. The space in the boiler room is suply sufficient to enable us to add two more boil of 140 horse power each, The boilers we now propose to put in are two 73 horse power boilers set in one battery, or, in other words, a double 146 horse power boiler. This is done in order to got a subdivision of the boiler power. Any future extension we would propose installing a single 146 horse power boiler, that is a boiler with one furnace. The total boiler power would then onable you to take care of 3200 lights, then when you require to mako a further extension we would take in another 140 horse power single furnace boiler, which would bring your boiler capacity up to 4600 lights. There is planty of room to do this in the building as at present designed, and the subdivision of boiler power. which you will then have, will be quite sufficient, as with a total plant of 4000 lights you would have what is practically four •

distinct boilors to take care of same.

There given the orders to-day for our material, and the sure vall pushed on as vigorously as possible in order to get the installation completed within the shortest possible period.

I will advise you from time to time as to our progress, and will doubtless be able to tell you within a week or ten days the date that we shall consensed Laying our tubes, which is, as you understand, the next troublessme part of the work.

Very bruly yours,

.

Octuber 3rd

3

W. H. Dwelley, Jr. Esq. Treas.

Edison Blockric Illuminating Co.

Fall Rivor, Bass.

Door Sir;-

I enclose you herewith a certified copy of my Power of Autorney from in Edison, which it would be as well for you to file in your office, inamuch as the agreement with him is signed by

Vory truly yours,

1

October 3rd

3

Thomas A. Edison, Esq.

care W. J. Jenks, Manager,

Brockton, Mass.

Managr Edison:-

I enclose you herewith a note for \$1,375, due the 25th, becomber and in favor of the Armington & Sime Company.
Plage sign this and send it to this in the enclosed envelope IMERITATELY you set this. Do not fail to do this, as I precised Sime jesterday that he should have it in order to enable him to meet his payroll, which is due to-morrow or the next day.
I have sent him a check to-day for the arms amount as the note, and the two tegether will settle up our construction Department, account with Armington & Simé for last meeth, in fact will clear up everything with the exception of the large engine chipped to have discussed to that settle that I shall easily be able to take care of the payment of saws.

Vory truly yours,

S

Englaguna

October 4th.

Frank H. Mc. Comitch, Enq.

Williamsport, Ponns.

Door Birt-

I had to apologise for not having missored zone favor of the luth, Saptember before this.

in Edison and mysolf have found it necessary to be away from low fort so much of late that this, together with some other matters, has entirely exempt attention. I have been endeavoring to got to Sundary and williamport for some time past, but up to the present have found it impracticable. I have, however, hade an enquision with Sr. Show to meet him in Williamport on Conday next, the tith inst., and I will at the same time go doubt have the pleasure of receiping on and arranging with you as to the transfer of the stud.

A Overy truly yours,

3

October 4th

3

.... ,, ,

Sir;-

I have the pleasure to enclose you herewith a letter from the Non. Rescor conding to your good self introducing on Edicon to you.

On Edison is absent from the city at the present tipe, and will not be been until "order" meet, I therefore desired it exvisable to forward this letter to you by the hand of the Rissell.

On Mr. Edison's return, he will doubtless do himself the

Vory respectfully yours,

Private Secretary.

Enclosure.

October 4th

3

onry A. Clark, Esq

Erio, Ponna

Doar Sir:-

I have the pleasure to acknowledge the receipt of your favor of the lat. inst., and in reply beg to say that we can complete the work at Eric within sixty days after the signing of the contract. You will be dealed hippresisted the necessity of cleaning this matter quickly, if it is the life instant of the Eric Company to do untiting this year, as very four this provided in the life impossible for us to set poles and make other necessary oxiderations.

yary truly yours

J, a, E 9

October 4th.

C. H. dampbell, Esq.

White Plains, N. Y.

my hour Campbell:-

T have received any answer yot to the letter

I wrote you the other day, and I professe you have either been too

T got the Rowburgh husingss fixed up with hughes this other than bump Sum bids by Letter Other matters in morning without sonding any other estimates. relation to estimates are still "hanging on", and there is one point which laughos wants vory builty that I am unable to give him. and I wired you about it yesterday, needly, the details of the building. The Newburgh Company desire to have a specification of the building you prepose to erect for the central station, ax in order that they may obtain a bid on away from some local builder, who is appears will take the amount of his contract in stock. Wo should like very week to give this information at the carliest possible homont. The abount you allowed for this structure was 33,100., the building to be of brick. There are no accessible dotail's in the office, and I prosume that you carry this informa tion in your head, just where we tannot get at it. Can you assist us any from where you sit IT hope by this take you are able to mit un). ?

October 4th

a

I stade up the real liver estingto nysolf. It is for some light, with street installation calculated to dever spec log lights, and the sotal meant is all, ins. in. I allowed for preight and captage field. for elected work about \$400, and about 3073. for the expenses while the observation, while starting the station. The had other items were under up in the neutling the station. The had other items were under up in the neutling and real starting the starting. The had other items were under up in the neutling and we are grang right should with the work.

I hope you will be able to deen out soon, as things are consumming to "boos", and there are two or three more contracts which it sooms to me we are likely to get before cold weather sets in.

nattore we "tackle" any new work there are a lot of old matters in the office which I should like to get cleaned up and I commot be it without your assistance. When do you think you will be able to come hack means

Trusting that you are rapidly progressing towards con-

Sincorely yours,

aoy

Octobor 4th.

3

A. A. Cowles, Esq. Sect/.

Ansonia Brass & Copper Co.

In Cliff Stroot, City

Doar Sir:-

I onclose you have sith an order for copier rods to be sent to the Electric Table Company. Those rods are to go in tubes, which will be laid as rall River, under a contract we have with the Edison Electric Tlumination Company of Pall River.

It is very important that this order should be pushed forward as quickly as possible, as we have but a comparitively short time to make up the tubes and get them laid before front comes on. We shall therefore he glad if you will make an extra effort to get them out quickly for us.

r will call down to moving and show you in Edison's contract with the Mall River Company and give you will explanation as to the matter, which I feel sive will be entirely to your satisfaction, we the parties in the crost with us in this matter are of the yory bost.

Yory truly yours,

31

octobor 4th.

J. R. Campball, Roq.

naty Notel,

Williamsport, Penna.

Door Sir:-

in folly bas to state that I did not intuid by letter of the Sad. institute to be interpreted as a consure, I indeavored simply to point out the platake which any one olse, plaged in the seas position, would be limbe to coset. I will see that there are no serve delays as regards sage, and will also have then properly marked perfore somiting than to you.

I send you by this rail, under separate door,

T have your telegrad of to-day's date stating the wore consilled to draw at state to provent delay, which this instance in quite satisfactory.

voyy truly yo

7, a, e,

October 4th.

the second of the second

Milligasport, Pouna.

Donr Sir;-

t have your latter of Med Mith, ulto, and in reply bo to state that I will be in villianmout on Hundry next, the lish ingt, where I shall have such pleasure in heating You.

Vory traly yours

2, 3,

. natubo: 4th, 👸

s. A. Edison, Esq.

gard 7. J. Jents, Esq.

twochton, i-ass.

ng Doar Edison:-

chat the telephone matter should be noticed vary. He says that the telephone matter should be noticed vary. He says that he speak to you should the matter of the cover-hell stock, ad and I understand his proposition to be that the cover-hell stock, ad and I understand his proposition to be that the reliphone company of Europe should take half the stock and he take the other half, on account of the countries he paid in under the approach to be a pour and himself. Will you ploase were no instructions in this matter the first slying to-morrow morning, so that I can have the necessary papers propared. If you will authorize no to indictate, with individual, I will and one to help the help the down, as considering the dual capacity you hold as President of the furdecan foliphone. Of party interested both to furdecan to party interested by the tops to party interested to go an good towns for the European Cannot in Should to your utness to got as good towns for the European Cannot in Should to your utness to got as good towns for the European Cannot in Should to your utness to got as good towns for the European Cannot in Should to your utness to got as good towns for the European Cannot in Should to your utness to got as good towns for the European Cannot in Should to your utness to got as good towns for the Took hear of brought up arterwards.

I got an order this norming for 15,000 laws for lordin and 2,000 large for londer. The first order is in consequence of our reduction in terms, Moving the good pulses of making the

roduction

I my very sorry that you did not receive that matter from the printers, but you must bloom the express company and not our office, as it was all sont off Trom here on Tuesday.

Ploase wire me stating absolutely then you will be buck.

J. vant around to soo Mrs. Edison this morning and she sould M considerably better. She is going to neve this afternoon, and the degler has undertaken to accommany her, in ease or any stables. I shall wire you to-might stating mother the moving proved disadvantageous to Mor of Table.

I have the honor to be (a la Anglaise), Sir,

Your most obodient and Paithful Sarvage

8)

Addisonation of St. St. December 2

Detubor 3th.

John P. Smith, Esq.

143 East 33rd, Stroot, City

Door Sir:-

be gird if you will soo to the watching of mass, and prevent your bill at the above address each month.

Taly,

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1883-10-05

October 5th.

.

Priond Beach:-

I send you herewith an interesting article suitable for your columns on "Stirage Uniteries" written by Mr. Sponcer Bordon of Pall River, who sent it to me and asked my opinion.

I think it a very correct article and thought possibly

Vory truly yours,

Jak, J.

ctober 5th.

arles Batchelor, Esq.

Paris, Franco.

Doar Sir:-

Referring to a cable confirmed elsewhere, I beg to inferry yea that I wired you with relation to the Armington a Sins engine at the request of Gov. Heaved and Mr. Sins.

They do not uniteristand may you are unable to deal with draington, and if your people are fabilly anxious to get the envine, I can make Tayorable torus here.

Vory truly yours, .

Tak

1883-10-05

October 5th.

J. U. Mackonzie, Esq.

466 Vandorbilt Avonue,

Brooklyn, N.Y.

Dear Sir;-

I wrote you senotime ago asking for the recipe for the duplificating ink which we used to make up at Menle. I have not at this writing received the same, and if you will again so for oblige me I shall be glad if you will let me have the receipt.

Vory truly yours,

October Sti

. 3

Sadane Meares,

333 Madison Women, dity.

Madam:-

If you have a gasame, in your school for a likelo girl ton yours old, En Edison would like to send his daughter as a day scholar.

He desires that she should take lunch with the really,

If you have a vacancy, will you please let me know at
your early convenience that your terms would be and how soon you
would desire likes Edison to convenie her stations

Yours very thuly.

P.S



October 5th, 3883.

Joseph S. Forrell, Esq.

Southwark Poundry & Eachino Co. 430 Yashington Avonco, Phaladolphia, Jonna.

Boor Sir:

Your favor of the Seek anst come to hand durang the absence of the Education and axisolf from town. I returned this seeming but 35 Edicon wall not be back until next week.

I megret very such that you should fool compolled to write a letter in the spirit in which you have, and can assure you that the settlement of the matter would have been made ore than had not circumstances absolutely provented in Mison from doing so.

the Mikan has been away a very great deal lately and so have T, and in a have the harmoned that we have solden been here at the same time and have therefore been unable to discuss the matter of your outstanding claim and arranged settlement.

At this writing it is impossible for us to make a settlement, but I can promise to mend you to sorrow a note for 32,000, and possibly \$300. more. The note will be that of the Misson Company for Isolated Lighting, with Mr Misson's endersement, and I trust that you will take this as an earnest of our desire to make a sattlement with you as early as possible.

I shall be glad if you will wire me in the morning sta-

1883-10-05

mother this will be satisfactory to you.

We have had the engine at George Street ready for you to use for some time past, but so far nothing has been done there with relation to the experiment which you problem to make.

Till you ploase wivise us with relation to this matter, and greatly oblige,

Yory truly yours,

S.J. O.J.

H. Dwelloy, Jr. Esq. Trons.

Edison Electric Dluminating Co.

Fall River, .. Hass.

Dear Sir:-

I beg to acknowledge with thanks your favor of the 3th. inst, enclosing copy of the agreement between us duly excuted, also your check for \$4,180,98, the some being ten per cent of the amount of our estimate.

October 3th.

з,

C. W. Rogars, Esq. Vice Prest.

Maetere Railway Co. of The U.S.

Wills Building, Gity.

Dear Siv:-

This will introduce to you in 2. 8. Pract of London, who is desirous of looking into the matter of electric railroads.

If you have the railray at Honlo Park in operation and can arrange with him to see it. "Small estons it a favor.

Yory truly yours,

Taky

Middletown + Mr. Schumaker

October 6th.

A. Stuart, Esq. Socty.

Cincinnati, Chio.

Donr Sir:-

By converge, He byer, writes no from Uron, Chao, and says, a St. Schmader, the Probabition Candidate for severnor of Ohio and the largest property e-may in the city of Akron, was, when St. Dyor first not him, on the point of purchasing a 1.0 light Prush-Svan plant for his mill and office and intended to use a storage battery in connection With same. He byer says that he has demonstrated to St. Schmader the inefficiency of those batteries, and, furthermore, state that you will find it advantageous to open commitmentation with him Schmader) as early as possible.

Regarding the 300 light plant for Middletown for which I was to send you an estimate this week, not know any annual to the house through Allness. I have; however, had the estimate predered and it is nearly completed and will be forwarded to you on Monday. You will no doubt understand from this that the the delay was unavoidable.

Very bruly yours,

October 7th. 1883.

Southwark Foundry & Hachine Co.

430 Wahington Avenue,

Phila, Ponna.

"Doar Sirs:-

I received your telegram youterday, and have the pleasure to enclose you herewith note for \$2,000. of the Edison Company for Igolated Lighting endorsed by Mn Edison, who has returned to the City, this morning.

Please credit this to the account of the Edison Machine

Very truly yours,

SJ

October Mth.

W. F. broaster, Sag.

Southern Notel,

St. Louis. So

Bear Sir:-

In reference to a canvass of how Orleans, we bon to say that we sould advise not making this at present. We think it would be desirable to with until the Stilouis business is satisfied before going to the expense of making other curvasses in the South, as it is our desire to keep the expense down to the lowest pessable figure and not make converses except when we are quite sure that money will come from these. If, however, Captuin Boffinger is willing to pay for this canvass of new orleans, we will of course make it under his instructions, but otherwise we would prefer not making it for the present.

Vory truly yours

October at

3

Western Electric Co.

62-68 Now Church Street, Caty.

Doar Sirs:-

Referring to your order Re. 087, under date of October 4th, and which we return the region of the young much regret to ababe that we have not get on hand the carbond which you desire, and as "we have broken or our laboratory we have disconsiding install them. Would it not be lessable for you to take a those yours If, we should said prefer you to deal with the matter in this memory

Yor'y trully yours.

Luly

Enclosura

October 16th

0

John Kruasi, Esq

33 Mashington Street, Sity.

Joor Sir;-

Referring to the attached telegram from the Transurer of the Larrence company, does your bod for the additional underground conductors take in the extension is lord refers to?

Places let me have a roply by bearer.

Yory truly yours,

21



October Uth.

"Socretary."

Edison Electric Light Co., Limited, 74 Coloman Street,

London, R. d. England.

Boar Sar:-

We beg to ashowledge reseipt of your latter of the 35th, ulte, signed by Mr cland Scott covering orders Nos. 911 and 913.

The reduction in prices for lamps was made subject to orders being given us for 10,000 Jamps. The prices quoted to you were figured down as low an possible, provided lamps were endorsed in the quantities named. It is quite impossible for us to vary the offer sude to you in our favor of the 13th, alto., and unless you are prepared to order in accordance with that latter, the prices must stand the same as those given to you. There is not sufficient margin in the manufacture of lamps to allow of any modification, anless upon the quantities stated to you in ours of the latte.

We accordingly colled you to-day that we could only fill the orders at the old prices, unless you were prepared to give us an order for 10,000.

Vory truly yours,

October 11th.

Charles T. Hughes, Esq.

U. S. Hotel,

Wowbargh, R.Y.

Pear Sir;-

Referring to your favor of the 4th, inst., we see to say that it is not our intention to make any more detailed estimates for new burgh, as we consider that the information given in our letter under date of October 4th, is all that you can possibly want in submitting the matter to the wearburgh company.

In this lotter we show the reductions which we will note an the street installation and electrical part of the datamate, providing you decide to cut off the mains and fooder as described therein, and a further estimate would simply be a duplicate of the one you have embodying the alterations mentioned in our letter of the 4th. inst.

We will send you by to-morrow's mail blue print and specification of the building which we propose to cruck at Now-burgh, and you will find the information shigh we give you on that is necessary for an outsider to have in order to bid for the droction of same.

The statement of profits wall accompany them.

Very truly jours,



October 6th

34

ers. T. A. Edlayn,

· Usig,

My Dear Mrs. Edison;-

Can I sell the gray pony and the children's wagen and brown harness for \$100.7 This is the best offer that I can get for it. Johnny tells his the sugen is very mach dilapidated and the pony is worth comparisively little.

Places give no an answer by bearer, as I want to reply to the effor to-day.

I will try to get around to see you this evening.

Very truly yours,

81

Outobor Sth.

W. D. Rich, Esq.

cara Edison El settie Illuminating Co.

Lawrence, Mass.

Doar Sir:-

I enclose you herewith two blue prints, one showing the foundations of the Wall Siver building and the other the general interful arrangement of the station. I also attach an office copy of our estimate, and would call your attention to the fact the prices govern a guidance of the station of the fact.

To have placed our orders for the bollers, emission, dynames and steam and exhaust paping, so that there will be no delay when you are ready to have dd whip this material. We have also ordered foundation caps, welts and washers.

Referring to the column for not cost, do you not than it would be a good idea for you to fill in opposit such item (the contest of which is only accessible to you) the actual amount expended in connection with sum. I refer to foundations, boller hearth, cost of holsting a guying, stack, and you might also give the cost of the labor in connection with the hanging and direct of steam and exhaust piping ad. This would prove to be very valuable information to us and we shall be glad if you will find these costs as accurately as possible.

October 8th. S

C. R. Spiors, Esq.

283 Surray Stroot, City.

Donr Sir;-

Ht Edison wants to see you to-merrow (Tuesday) at twelve o clock sure.

Yory truly yours,

SI

October Uth

34

0. A. Moorass, Esq.

Kristiansund, Morway,

Dear Sir:-

Referring to your favor of October 6th., I had to inform you that the instrument you refer to for the assistance of deaf people was never perfected, owing to my having to give my attention to other matters. I hope, however, at some future day to take it up and deal with it again, but at this writing cannot say when it will be.

With relation to electric lighting, I think the best think you can do is to write to Mr Bailey, who will doubtless communicate with you and sive you the information.

Very truly yours,

Haly

Octuber uth.

.

A. S. Eissoll, Esq.

knoxville, Yenn.

Doar Sir:-

Your favor of the 3rd. inst. came to herd during my absonce from bown

In reply, I be: to state that the only way that we would make an estimate is to have a regular canvass of the term made, and on the dat; thus obtained make our tender in the regular manner.

There would be no necessity to have an electrician to run the station. One engineer and one meteraan is quite suffreiont. Sambury with 300 lights, Shasokin with 1800 and Brockton
with 1800 are run by two men, the metersan helping the engineer
from 3 P.M. until 10 P.H., after which hour the main load is nearly
off, the engineer runs the balance of the might and the reteman
comes on at 10 in the morning, attends to the meterwork, bookkeeping, collects bills and turns the miney over to the Trainver of
the Company. The indeed arrang is done by a local plumber, who
is taught the work by our experienched to any of the inside aircover,
and policy to have the local company to any of the inside aircover,
dis if they do the consumers will play off the light against their
wire bill.

2

If you will write bajor Baton that the prospects are good for organizing a company he will order us to side a canvass, and we will push through the work as quickly as possible.

If they require us to do the work, we are willing to take a contract, providing they leave the field of is to us. We are not, however, prepared to let them do part of is and take a contract for the remainder. Our experience with this method of procedure at Shamekin compels us to take this course, we it ends in increasing the day size and causes great delay, and gives methor water-faction to the local company nor to ourselves.

Yory truly yours,

October 9th, 1863

Gustay Soldan, Esq. Supt.

104 Goord Stroot, City.

Doar Sir;-

Thon to give you below an extract from a letter which Un Russen has received from Mr. Ratchemer:-

" 140 light machine. I have just altered an J to give 140 lags quite easy and it works your well indeed,

Areature: - would like a H 18 wires No. 10 each coil. resistance 0.030 ohms.

Each core wound with 10% lbs. No.16 wire, paper on core but after the bettem layer no paper.

The wire mass through a het solution of mara-

fin and resin on the lathe during winding.

Tost, 1,200 turns

140 Amjores.

110 Volts.

F Dynamo. I have altered all the F dynamos, we had commoned to give 1000 turns instead of 2400 which is a speed which gives no satisfaction in the hands of the public.

Armarure:- Instead of 2 wires 8 turns around I make 2 vires 12 turns around, this makes the armature more resistance but them we can easily sell them at that."

October 9th.

2

L. V. Serroll, Esq.

140 Massau Stroot, City.

Door Sir:-

I do not think there is any necessity to take an appeal in the first count of the Michelson case.

Very truly yours,

Tales

netubor Uth.

Goorgo W. Wilbur, Enq.

cave W. J. Jeaks,

Brockton, Gass,

Done Bir:-

Florage advise me as early as possible how meen you will be through conversant broadton. I would very much like to start canvassing hiburn, N.Y. early next week. If you can so there earlier, so such the better.

Yours trade

Octobby 964

3

J. H. Bouty, Roq.

Shamokin, Ponna.

If private secretary, in Insull, will be in Shrankin either Vednesday or Thorsday, in order to arrange with you for the

sattlement of a account for the installation of the central station at Sheachin.

Yory trady jours,

Zally

Frank S. Marr, Esq. Troas.

Edison Electric Illuminating Co.

Sunbury, Ponna.

Doar Sar;-

perferring to your favor of the ard, October melosing paragraph from the "Public Ladgar", I bog to inform you that there was no fire, except in a service pipe four feet underground and where there was no safety easeh. He fire can or has ever happened in our district, and we have reduced the average fires thirty five por cont within the area we are now lighting.

Yory truly yours.

October uth.

3

Monero. Mergann & Se.

Bus Avenue, B, Sity.

Door Sirs;-

I smaloss for herearth a two bouths note for \$3,24,03 in satisfaces of our laboratory assumes. So books agree exactly such yours on this assount, so this clears us off until October lat

I also emclose you a three months note for \$2,300,03.

I make this amount up as follows:-

\$1,340.43 amount did four viring department by our construction department, according to our books and \$730.30 amount due four firm by our construction department, also according to our books. This beaves a difference of \$810.01 due to your according to your books, and which we do not appear at this writing to have on our books. In this wall communicate with for during the week with a view to straightening the master out, when we will endeaver to hand you a check for the balance.

I also undone you a check for 83,000.00, on account of your account against the Sakson Electric Light Company. You should send come one up to sign a voucher for this.

Will you please send as a check for \$1,400., in return for the check which I gave you on Waturday. I will deposit that check to-day, with the one I now have here for soon., lise this

artornoon, no they will not set into your bank until to-morros Your truly yours,

250

Unclosuro.

Octobor Oth

3

A. S. Beach, Esq

201 Broadway, City.

Dear Sar;-

Referring to yours of the uth inst., I will find out from the writer of the article whether he would like his nare published. By impression is that he would prefer to assume a new de piuse.

Very truly yours,

Jak

New York, October oth. 1888.

Cossrs. G. R. Courand, Joshua Franklin Bailey & Thoodore Puskas

. Doar Sirs;-

The undersigned acting for and by authority of the disson Telephone Company of Europe, limited, and also for himself individually as co-vender under the expressions dissed 16th. November, land, between T. A. Marken, the Edison-Governed Limited and others, and the Edison-Governed Limited and others, and the Edison-Governed Limited, you are hereby authorized and directed to transfer the 175,000 shares of the Edison-Governess, limited, norther and in your name, into the manes and to the amounts as follows, vizinable described the Edison Telephone do: 20 Marupe, lamited.

2. Thomas Miva Edison, 44,750

| The Edition and Stripe, | 18,000 | 2 | Thomas Alva Edition | 18,750 | 3 | Edition | 18,750 | 4 | Thodoro Funkin | 3,500 | 5 | Junium Franklin Salley | 175,000 |

Witness

The Eduson Tolophone Company of Europe, Jaid.

Prosident.

Witness.

October 10th.

Gustav Soldan, Esq. Supt.

104 Goorek Street, Gity

Dear Sir:-

Horo is an extract from our meserman at Shemickin, Mr. Genant:-

"I have fitted to one of the dynamos i couple of strais' by which the brushes may be raised from the commutator when shutting down. The arrangement is as in the following sketch.

All the is microstary is to pull the strip and enten the ring over the new fid ring is placed a nuckle to allow of adjusting the

lift. At the end of each strap is

small estak which is caught under the brushes (as shown at W. f.)

The fullers are scrowed to the

'dolden dddd of the dynamo. There is

'dddight slack to allow of shifting

the brushes when necessary during a

Fun. The arrangement works easily and the entire cost is about \$.80 What do you think of the idea?

Your to

October 10t

Mossrs, Borgmann & Co.

202 Avanua B. sity

Doar Sirs:-

I bust to gives you below extract from a letter received by the Relater from our meterach, an conant, who is now at themselved.

"The copper wires on the clight plates, as you know, are extra long to allow for the small plate. This is all right, but the gramman has sent me a lot of TI Tight makens plates which for some reason are fitted with a light copper wires, so that to get them into the meter they must be cut down, and we cannot wastef time in sending these back but this should not happen again. The significant light coppers also you remember are too short.

Vory trul __yours

October 10th.

Messrs. Stigman & Mc. Carty

Brownesville, Toxas.

Doar Sirst-

Replying to your favor of the Ath, September, we beg to say that at Sunbury, Penna, we have installed a 500 Edison.

Electric light Plant, the cost of which, with building and everything jut up complete, was 514,300; at Shamokin, Penna, we have a 1000 light plant, the cost of same doublete being \$10,000; and we have also, a 1000 light plant at Brookfor, which was installed at a cost of \$31,000. All field plants are working perfectly, and consumers of the light may that they are thoroughly satisfied with it and would not on any account use gas when they can obtain our light.

We would suggest your sonding maps of both the towns mentioned in your letter, and if possible stop the operations of the are light people.

Vory truly yours.

Lake

October 10th

3

E. H. Lord, Esq. Treas.

Eduson Electric Illuminating Co.

lawrence, lass.

Door Sir!-

I am in receipt of your telegram of last might stating that the resulting of the tremedee is unsatisfactory. I also resolved another telegram and letter from you this morning in reference to the extension of your system on both sides of Essex Street.

I have referred this did the matter of the Ampalianatory refilling of the typiches to the Riestric Tube Company, the tall limitues their forcess at lawrence to have this work properly done.

The three 100 light meters which you ask for will be

Very truly yours,

Tak

October 10th.

F. J. Strague, Enq.

Hotal Helmont,

Brockton, Hass.

Ocar Sirt→ .

I sond you herewith maps of Middletown, Ohio and

Norwich to underground - Middletown Fire line.
Lindy los no boyo these as soon as possible, and obline,

Yours truly,

Jak

Mossrs. Hergmann & do.

Jud Avenue B, dit,

Dour Sirs:-

Referring to your invoice of October lith, for one main ampore indicator for shamokin, which appears to have been ordered by Mr. Andrews, we had in future that you would not accept orders for material on account of the denstruction department unless they are insued from this office, us it causes grait confusion and we have know what material is being supplied for our stations.

vory traly yours.

Tale,

October 10th.

W. S. Andrews, Sag.

caro J. J. Jonks, Managor,

Grock ton, Mans.

Donr Sir:-

I can in receipt this moraing of two invoices from sens.

Hergmann & Co., each for an ampere indicator forwarded to Shambkin,

one of which has been supplied by an order from this effice sidd

the other by verbal order from yourself.

We do not understand what use you can have at shamekin.

In future when you require material whether the profession of this crizes, as it to impossible for us to keep track of our business unless we know except what is notice on.

Very truly yours.

Laky

Electric Jube

October 10th.

٠.

Blockric Yubo Co.

di Washington Street, City

Doar Sirs:-

I am this morning in receipt of a letter from the Trongurer etatho Lawrence Company stating that their system must be extended on both sides of Essex Street.

A few days ago I referred a telegram in reference to this extension, in reply to which you stated that your had for additional underground conductors required at Lawrence covered this extension. I reserved another telegram has inight from an lord stating that the refilling of the trunches was unsatisfactory, and that your forcam would not repair the damage. We shall be glid if you will also both these matters your immediate attention, and acceptain what has given rise to the complaint which in Lord males, and have the matter adjusted is quickly as possible.

Vory truly yours,

Taky

Octuber 10th.

W. H. Dwelley, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Pall Rivor, mass.

Dear Sir:-

In reply to your ravor of the bth. inst., we ben to any that everything at Fall River will so should with all possible does atch, and in Rich will be there in good tame.

The Religion is at the moment working out his school for viring, and so would suggest strongly the advisability of your not making any process to the public about wiring or prices of the light, otherwise it will severally interferently us Religion's arrangements, as it did at Brackton, where all the wiring must be done ever and where they started too low on the price of the light, and installed for some light than parties required, thus running up their bills unnecessarily. You can rest assured that work will be proceeded with to your instrumentation, and that no time will be lost by us.

Vory truly yours.

SI

October 11th.

A. A. Cowles, Esq. Socty.

Ansonia Brass & Copi or Co.

19 cliff Street, city.

Boar Stree

I ben to enclose you herewith copy of my Power of Attorney from se Edison, as promised.

Very truly yours,

October 13th.

7. S. Andrews, Asq.

Franklin House,

Lawrence, Mass

Doar Sir:-

At Jawrence it is proposed to put will anothines to take the place of the one sod light spars machine, and this will require a different regulator to what we have been putting in in distations already started.

se have got to provide for running, first, the two regular machines, second, for one of the spare machines on either side, third, for one of the spare machines on each side, fourth, for both of the spare machines of one side or the other side, as the case may be. Now is your satch going to take care of this, and how are the regulators going to be arranged to take care of ity

Will you ploase study up this matter and lot us have your ideas at early as possible, and in doing so please remember that an "p" regulator costs us 450., and that we want to keep the expense of the regulation down as low as possible, computable with its completeness. Of course you may think of sume other points that we have to take care of basides the above enumerated, it so, allow for it.

Very traly yours

II, y

Octuber 13th.

Goorgo'S. ladd, Esq.

222 Sansome Stroom

San Francisco, Call.

"Djaboarrier:-

I am obliged to you for four favor of the 3rd, inst., and must thank you for the trouble you have taken with relation to our light for Mexico. It is, however, a matter with which I am personally unable to deal, 42 Mexico is controlled by the Edicon Microtrolight Company, she I think have a constnet with some one in Analysis of Mexico.

I have referred your lette to Major Eaton, and he will doubtless communicate with you giving you detailed information on the subject.

With kind regards, I remain, ...

Vory truly yours

al #7

October 13th.

Faul D. Dyor, Esq

Post Office.

FansasaGity2 Mc

Dear Sir:

T telegraphed you to synthiams, My, requesting you to canvass baseds City.

Mn William P. Browster, the special agent of the Mison. Slactric light Co., disiras fou to sap Mn V. H. Winants, Gushier, Armour Brothers Banking Co.

It is proposed to put a plant in Ransas city of 4000. lights, so you will have to take in as large an area as possible.

I know it is quite unnecessary to urge you to harry through the canvans, but I may as well stite that we are waiting to got out the estimates and of course can do nothing until we get the canvass from you.

Very truly yours.

October 13th, 3

hessrs, Brewer & Jensen,

33, Chancery Lane,

London, W. C. England.

Door Sirs :-

Referring to your notice as to Patent4, 276 of 1880, "

I begate inform you that I do not propose paying the fee, and the Fatent will therefore have to Tayse.

Vory trul/ /ours,

Jak

October Mich.

William F. Browstor, Asq

Southern Hotel.

St. louis, No.

Door Sir:-

I have your favor of the 6th, inst:

I have ordered an Paul ", nyer to laneas they to make a ganvass of the town. It was in dynahiana, My, yesterday, and I presume will be in Bansas City in the dourse of a few days. I also wared you last night asking you to send him introductions to the right parties in Eansas City. I trust that you have done this.

We have instructions from Major Eaton with relation to the canvass of New Orleans. Immediately Mn Dyer is through at Kansas City, it would be well for him to no to New Orleans, but I would augment that you write Major Eaton on the subject. I have myself sent a memorandum down to Major Eaton about this matter.

Very truly yours,

October Lath.

C. H. Cooke, Eng.

Osborno liOuse.

Auburn, WY.

Doar Sir:-

I was away at the time you started for Amburn, and therefore had not an opportunity of speaking to you.

of your canvasses which show a great many mistakes. Apploton is a special case on which he has based his reasure. I have been over landota convass with a gostleman from that place, and he dies claims that it is very incorract, and I notice in several places that you could noticely the allege and your works of lights in many cases are very defective.

T write to warn you about this matter, and trust that the Adburn canvass will be a complete one.

Very truly yours,

SJ

October 13th.

. I. Garrison, Esq. Troas.

Edison Electric Illuminating Co. of Brockton,

Boston, Mass.

Dear Sir;-

We wired you last night requesting you to communicated with in C. N. docke, Osborne House, Auburn, whom we have sent there to canvass the town.

We are anxious that he should get from you the manns of local parties for him to call of with relation to the canvass, and therefore trust that you have dritten to him on this subject.

Very truly yours.

Jak

3

O. J. Smith, Esq. Prost.

Americal Press Association,

39 & 41 Park Place, City.

Doar Sir;-

Referring to your latter of the loth, inst., We Edison, who left town last night, requested me to inform you that he is so yery bus, that it is quite impossible for him to write the articles you refer to. He will be out of town the most of the 'ims between now and Asymmetr lat., but after that dute if you care to interview him, and so get at the data to write up articles on the Edhjot you refer to, he will be 'very glad to give you the necessary time for the purpose, whis? I main is for one of your representatives to get from in Edicoln 'Skidely his views and then write them up himself.

Vory truly yours,

/ S J y O S



October 12th.

Charles Batchelor, Esq.

Paris, Franco.

My Doar Batchelor:-

I have your momorandum as to case No.02.

I will look into the matter further and write you again in the common of a few days.

I heaten, however, to reply to your reserve on our meter.

We have been running since the 4th. July at Juspury, at
Shamakin for the last senth and at Brockton for the last thrue
weaks and down town since the early part of the year, and in all
these-places our meter has given very great satisfaction to the
consumers. At Sambury, where in all probability our customers
have four lights in their houses than in any other place, the
consumers in several instances history kept an exact record of the
lamp hours, and the bill has tallied so closely with what they
reckened it eight to be from calculating by their lamp hours,
that it has really surprised me, as the variation hus not been
more than two per cent in any case, and in a number of cases the
meter and lamp hours havebtallied within the smallest possible
fraction. We dispense now with the quarterly bettle, and use one

bottle as a check on the other, calculating the less on the plate

I will got from Mr. Chimnock some copies of his mater accounts and sond them to you to substantiate what I say.

In fact I as so mary much pleased with our meters, that I would not for an instant think of using the recording meter, as the advantages of its boing automatic would in no wise compensate for the difference in correctness as compared with our present form of meter.

vory traly yours, Tak

0

Oatober 13t

Hosers. Alden & Sterne,

City.

Door Sirs:-

I enclose you herewith letter from Homer Horgan,

We are very anxious to let Graners; Park indeed. Do not you think it would be a good idea to put up a notice that the house is to let?

Yours truly.

Jak

October 13th.

occober 13th,

C. E. Chinnock, Esq.

.... 257 Fearl' Street, City

My Doar Chinnock:-

We have a latter from Surope "kicking" against the use of our meter, and we have written saying that if a check is kept on the meter by keeping an exact account of the lamp hours the correctness of our meter would be established.

Wild you please write me a letter officially giving your experience with the meter and accompanying it with a few specimens of your meter records, which gives the name of the consumer, the loss on each placed and the amount of the account, alouds mantioning on what standing the calculations are made.

What I want to do is to "lay out" these Europeans who "kick" against our meter, and want us to adopt a recording meter which would never be such a sedecess as our present meter records.

Very truly yours,

October 13th

.....

Thomas P. Conant, Esq.

woovers Mational Motol;

Shamokin, Penna

Door Sir:-

Your letter asking for a check for salary came to hand while I was in Williamsport.

I, have the plansure to analyse you harverth chark for a , boing the assumt of your the months of August and Corrector. (The Quare Jensal Uf Cor 122)

I shall leave Now York for Shambkin Sunday night, and shall hope to have the pleasure of seeing you Monday morning.

If you should happen to find a piace of stank not more than ordinarily tough, you might save me half of it, as leather flavored with the essence of boolstoak is containly indigestable, to say nothing about its being ungalatable.

Very truly yours

SJ

October 1.4th

.

W. S. Androws, Esq.

. Franklin House,

l'awronce, Hass.

Door Sir:-

I am in receipt of yours of the 11th, inst.

I cannot possibly order conant from Shamokin at prosent. Cannot you berrow from in Rich some of his man to help you and so push your work through railedly? I am anxious that Jawrence station should be started as early as possible, as we have quite a heavy parment dependent upon the current being put on the mains.

Yory truly yours.

S 3

October 12th.

- 3

F. J. Spraguo, Esq.

Hotal Ballagat,

Brock ton, Mass

Doar Sir:

To beg to remained you that unitarishin writing we have never received any detailed report as to the progress of the bininess in Speckton. We are frequently called upon by the Officers of the Electric light Company for information, and to are absolutely unable to give it in consequence of our not hearing from you will you please, for the future, report at least twice a week to this office, irrespective of whether En Eddson or the Friter should happen to be in any town where you may have charge of the electrical work. When we tell people that we are unable to give them information, they are inclined to think that we do not information, and our position is therefore a very askward one if you do not keep us posten!

Very truly yours,

Sylvand Disec

October 1 th.

F. Ward Joonard, Esq.

care 7. J. Jonks, Esq. Manager,

Brockton, 'fass.

Dear Sirt-

I have your letter of the 11th. inst., and enclose 15 you check for 35 as requested.

Then you were here I asked you to report to this office exactly the course your business takes in tweeton. You should send us at least twice a week a statement showing the number of meters installed, in whose house they are installed, on which stdy the of the circuit the lights are and the number of lights each consumers is wired for, also any other information of interest in relation to the moter business. I trust that we shall not have to ask for this main, as I can assure you at it were annoying not to have the information here, as we are frequently called upon to make the information and it places us in a very awkward position in not being able to tell people, who have a right to know, how our business is running.

Very truly yours,

Sprane Palec

October 12th.

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,

Noston, Vass.

Doar Sir:-

I have your letter of the lith, inst.

The reason the bills have been unpaid in proceed is that it was impossible for us to deal with the until getting in the leaf is uproval of same. This approval came to hand durang my absence from town. I returned this morning and will pay them all up immediately they can be passed through our books, which will be I prosume either to-morrow of Henday.

Very truly yours

Jal J

October 12th

W. H. Douty, Esq.

Shamokin, Penna.

Doar Sir:-

I found your tologram here when I returned from Williamstort.

I shall be in Shamokin Monday morning, and Shall hope that things will be in shape by that time.

I have just get the first small delivery of the mest cubic. Will you plouse wire me in the morning the quantities and sizes required by Floyd of this material. If he wire calculates on simple wire, I will know how much double wire to ship.

ory truly yours

Sy

P. R. Upton, Esq.

East Newark, R. J.

Door Sir:-

Referring to your favor of the lath, inst., I have thought ever your projection as to English orders, and I as strong ly of the opinion that we should not give way to them of the question of prices, as if we do we will be compelled to take the same read all through, and they are acted desirable castessess that we need trouble ourselves should bidding very closely for their tride.

Your truly jours.

Jak

(883-10-12

October 15th.

W. S. Andrews, Esq.

Franklin Bodoo.

Lawrenco, dass

Dear Sir:-

Referring to your letter of the 11th, inst. to we disson
he mays that he thinks that you can figure on what the Sammekin
people require for their Opera He we forward!. If no, will you
please not up a sketch of the regulator and sond it on, and we will
have bergmann estimate on it.

Very tral, yours,

8, J,

October listh.

Gardner C. Sims, Esq.

Frovidenco, R. I

My Boar Sims;-

The speed indicator which we use in the central station is made by T. R. Harding a Son, Tower Works, loods sample and but they have agents some where in Mosten. I do not, however, ince the greats address, and we do not appare to have any spare indicators on hand. I should fifth some of your Mosten Friends could probably assist you towards metaling one.

very truly yours,

81

October 1.5th.

W. S. Andrews, Esq.

FFranklin House,

Lawrence, Mass.

Doar Sir;-

Referring to your letter of the list, inst., to do Edison, as far as I understand there are three appear meters at Shamokin, whoreas our contract only calls for one, and my impression is that we shall have to stand the loss of the other two. One capere meter would have been sufficient. I presume, for them to get along with, although of course it is desirable to have two and much better to have three. My idea was to lot the matter run on until so had settled our contract, and then if they wanted more than one they could order it. I cannot find any record in my office of having ordered more than one ampere moter from Bergmann. ... Whon I compression to him that three were sent, he says I must blame you, as they were at your request. Chamberlin knows nothing about what ampere meters should go to one place or another. I know your inclination is to communicate with us in all matters bofore doing anything, but what I want to got at is, in this spocinl case, whether it is Bergmann's "bull" or your instructions, or some remarks of an Edison to Chamberlin, which caused three empere moters to go to Shamokin, which is a loss to as of about 340.

When he gets there :

Ogtobor 1Stb

W. S. Andrews, dsq.

Franklin Hoose.

Lauro neo.

Door Sir:-

Referring to your favor of the 11th, to Mr. Edison, we have talked the about over of the Lawrence central station had have come to the conclusion that the best thing to do is to give you Carte Flanche to let you make such arran counts as you see fit. Will you please do it on as occionidal a basic as possible.

I think Mr. Edison will be in brockton some time towards the ond of the week, probably about Wednesday or Thursday, and he will have a pressure indicator with him, which is just the "boss". When he gots there you want to go over and see it work. We propose taking out all the old pressure indicators and putting in these new ones.

Vory truly yours,

October lith

ou.

"Socretary",

Edison Electric light Co., Limited, London, E. C., England.

Door Sif:-

Referring to your Assistant Manager's letter of the And.
October, I beg to inform you that order No.388 will be shipped by
the Assyrian Monarch on the lith. The engine has been in Mew
York some days, but there is no stemmer sailing earlier. Your
order also for an #2 x 10 engine will be shipped at the mand.

time. I may mention that our engine builders have so many orders
whead, and wecourselves have to order quite a large stock of
engines in order to meet the demands against us in this country,
that it is very difficult to send you an engine off-hand. If
you are not prepared to carry a stock of engines you should order
them well in advance, as otherwise we will have great difficulty
in getting them for you by the time you require them.

Very truly yours,

Tak

October, Lith.

W. H. Dwelley, Esq. Treas.

Edison Electric Illuminating Co.

Door Sir:-

Referring to your favor of October 10th, to dajor Enton in relation to the installation of your plant at Fall Rivor, I would state that we are pushing everything in order to have the plant installed at the time stated, namely, the endoor developer. You must really leave it to us as to shether so shall commoned any particular part of the work. We do not done to send men to Pall . River to make a show there, and getcome part of our work through a month, before the other. This we cannot afford to do: Everything so far is going on very well, with the exception of the tubes, and I am inclined to think that your not writing to me guaranteeing the tubes, so as to enable us to order them, may cause us some dolay. So far we have had to make considerable sacrifices in order to got promises of deliveries of tubes at all. I fancy, however, that Mr. Rich Has been to Fall River since you wrote, and is preparing to start his portion of the work, which I can assure you is the quickest done, and, consequently, should be really the last commenced. If you will please have a little patsones and not think that we are doing nothing, simply because you

do not see a whole army of men in Fall River, I think you will find the thing will come out all right...

Very traly yours,

Zak

October lith. . . .

7. J. Sprague, Esq.

Hotel Beloment,

Brockton, hass.

Dear Sir:-

Your talegram of the lath, came dalf to hand.

We have not a very high idea of Johnson's qualifications, and have been endowering to get a dan more suited to our work, but we have not at this grising been able to get she can think against, and until we do get one if is quite impossible to recall Johnson. Seantine we would like to the first real season further information as to the trouble with him you complain of.

Very truly yours,

Jak

October 15th.

John W. Lieb Jr. Esq.

via Manzoni, 13 A.

Hilano, Italia.

Door Sir:-

Referring to your favor of the 37th, Soptember, I regret to say that I cannot sand you the ringing you ask for unlose I not an official order for same.

Tith relation to the valve metion assigned to the Araingles a Sims engine, which you say is proken, I can gave no explanation, except that the trouble-must have occurred after the engine left here, as before we shipped it it was thereughly tested.

Jak

detober löth.

W. A. Stern, Esq.

.886 North 5th. St., 'Fhila! Fa.

Beiendi Stern:-

Your two postals of the lath, inst. just to hand.

We are having the library removed from an adjacan's house
to this office, and as soon as the books are in order I sill look.

up "Gordon's Electricity and magnetism" and send it to you.

I am sorry to near that you have been eight weeks in bod suffering from such an accumulation of troubles, but it is a great relief for me to know that such troubles are of a legitimatelinstead of an illegitimate nature.

Hoping that you will soon be well, believe mo.

3,1

P.S. Owing to my having to go out town, this letter will have to be signed by my assistant, as I dictated it on Sunday, and it will be written on Henday.

3

Jetober 1.jth.

Gardnor C. Sims, Esq.

Providence, R. I.

Doar Sir:-

I have your favor of the loth, inst.

I do not care to stand the expense of your sending a man
to start your engines in our stations. I think that you should
suilly us with an engine shich we can start ourselves we have,
as we have.

Very truly yours,

GJ, PS

October lith.

P. J. Sprague, Esq.

Hotel Belment,

Brockton, Mas

Doar Sir!-

We how to acknowledge with thanks your voluminous letter of the 18th, inst.

At the moment we will only deal with one or two points.

I have received your telegrams asking as to receil
Johnson, and this morning wired you to have him return to new York
at once. I told you, if you have the money, to give him \$30.,
and if you had not to draw on me at one day's sight for that amount
and to take Johnson's receipt for it. We are very much surprised
and all appreciated in this man.

In relation to pressure indicators there have been vast improvements made in these within the past few days, and the difficulty you have met with will be entirely everence when the new indicators are placed in service. Mr. Edison will goven to Bruckton to-morrow or the next day and will have one of these with him.

At the moment I have no time to deal fully with your letter but will do so this evening or to-morrow.

very truly yours,

October 16th.

Thomas P. Comant, Esq.

Weavers National Hotel,

Shamokin, Ponna,

Doar Sir:-

I fancy that I have lost my bunch of keys in room 10,

Will you please enquire as to whether a bunch of keys were found in that room, as I am absolutely keyless.

Very truly yours,

3-9

October lith.

il Ward Loonard, Esq.

eare Edison Electric Illuminating Co.

Sroel ton. Mass.

Doar Sir:-

or Sgrapue informs in that one 50 light motor complete and one 40 light motor were shipped to Borgmann & Co's on the 12th. from Brockton, and gays that it is your intention to write Mosars. Horrmann & Co. on the subject.

In relation to defective material, we particularly desire
that all your correspondence shall come to this office, inasmuch
as we order the material and there should be no communication
between the parties receiving it and the parties from whom we
order it, as we expect those who receive material to consider it.
as coming from us.

I trust that any complaints you have to make about this matter you will send to us at the carliest possible moment, and comble us to have the matter corrected.

Very truly yours,

Jak

October 16th.

V. D. Rich, Esc.

care Edison Electric Illuminating Co.

Lawrence, Hass.

Doar Sir:-

We have your letter of the 18th, limit, in reference to lemithening the builer room of the Pall River station, and in reply we ben to say that if you will build a manhele door for eleming jurposes at the point X shown in the attached sketch, both builgrs can be entered from flues. This urrangements should be effected for the first pair of buildre installed, and the small arrangement will be necessary for other installations in the future. You could also obviate the difficulty by having the doorn on the top of the floor, as shown on several prints, so that with either of these arrangements no alterations need by made in the building or paping.

We are soins to order forward at once all the material for Fall River, and trust that you have made the necessary arrangements for receiving and storing it until such times as it may be required to be used.

Very fruly yours,

7

October 166

:3

Ball Engine Co.

Eren. Penna.

Doar Sirs:-

We bog to acknowledge receipt of your favor of the 12th inst. in reference to your automatic cut-off enganes.

In reply we would say that it would be necessary for us to make a long test of an b 2 x 10 or one that size at our Works, 104 Goerek Street, Rew York, before we could think of negetiating with you in relation to the use of your engines for electric lighting Threeses.

Vory truly yours.

Jale 9

October 17th.

W. S. Andrews, Esq.

Franklin Fouse,

lawrenco, ass

Dear Sir:-

I have your letter of the 14th, inst., and in reply ber to state that Mr. Edison insists that the regulation of the 400 light machines must be taken ears of in the small bathod that we now take care of the spare 500 light machine. Now this is to be done I do not know, in Johnson subjected an arrangement of switches to be interposed in the line between the registrates boxes and the field and then you could plug in olther one of the small machines or both of them on one side or one on each side. You freing on this, and let us hear from you further about it, as it is hardly a matter which I have the ability to discuss in correspondence.

Rorgmann has been gotting up a new regulator semething like the regulators used at the destrul station. My impression is that we will put this in our control stations in the place of the regulators already sent out.

T'do not know when you will get the new pressure indicators. Can you get along with the old form of indicators? If so, I can send these to you at any time, we intend to send out the new prossure indicators, which an Edison has been getting up, since you loft, and which has been working like a charm, but this will not be ready for some time, and of course the stations cannot be kept waiting in consequence thereor.

Taill let you know Scheenium the plum feeder switches and sufery catches. The first dozen had a backboard, in fact those sent to lawrence had a backboard originally, but they wage taken off the board at the request of an Sprague, who considered the board useless. I must say that I agree with you as to the advantage of having the backboard.

I have written to Soldan about what you asy as to dynanos. I do not knownexactly when you will got the 400 light machines, may be a week or two.

You do all with the matter until Comant is able to leave Sheeching I would must prefer that you should do this, as we have no isen to send you anyway, and I know you would like to have comant with you, so I would like you to got along until he can no to lawrence. He was all broke up at my telling himbar would have to stay a wook or two longer in Shamokin, when I was there the other day.

Vory truly yours,

29

October 17th, 1883.

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Boar Sir:-

I have recently received a number of complaints from the Machine Works about errors in the delivery of wire and copper rods. Such errors necessitate the return of the enterial, and, consequently, a very great delay to us at the Machine Works.

I write to draw your attention to the matter, thinking that it is probable that you may not be aware of same.

in Soldan, our Superintendent, told me this morning that he would call to see you in the course of the day about it.

Vory truly jours.

· October 17th.

laul D. Dyer, Esq.

Fansas City. He

Bear Sir:-

To have your letter of the 11th, inst, dated from Cynthiana, the cunvass of which place arrived here on the 15th, inst.

I wired you on the lith, to go to Maysville and make a canyage of that toom after you had familiated Mansas City. Mr. Stuart is your anxious to have Maysville canyased without dolay, and I therefore wish you would iso all possible despatch in getting through the term you are now in.

Very truly yours,

A)

A. Stuart, Esq. Secty. Cincinnati, Chic.

Doar Sir:-

. We are this morning in receipt of your favor of the lith, inst., and in reply beg to say that we have instructed Mr. Dyer to return to Maysville and make a sanvass of that town after he has finished Kansas City.

We note with much sitisfaction your statements as to the agganization of the Yiffin Company and the prospects of closing a -contract with them.

Under separate cover we send you the estimate for a 1000 light plant for Tiffin with street installation to cover 1709 lights. In our telegram of the 12th, we explained to you that the building which we proposed creeting was to be of brick with stone foundation, and the cost of same \$3,000. If you prefer a frame building, we will erect one suitable for the purpose for \$1,400., but inasmuch as there is not a very great difference between the price of the frame building and the brick building, we beg to suggest the advisability of eracting the latter.

In relation to temporary fixtures, if you do not wish us to supply these you can cut the amount (\$194,08) out of our esti-, and make arrangement to put in permanent fixtures from the

start

In relation to other estimates, we hope to send you before the end of the week Middletown and Pique, each a 300 light plant, as you requested.

Trusting that off Tiffin estimate will be found satis-

Very truly yours,

P.S. We presume you inderstand that our bid for the street installation only holds good providing the necessary grants and concessions for the procise of our poles and running of our wires, in accordance with the red lines shown on the map sent here ith and warfood Exhibit "A", are obtained by the local company. Should they fail to obtain any of these and thereby put us to any additional expense, from having to change the course of the pole line system, it is understood and agrood that they shall reimburse us for the expense.

October 17th.

P. R. Shaw, Sen

Williamsport, Fenn.

Your latter of the lath, containing resolution passed by the Selletonic company, and latter from an Harris, secretary of the same temperar, and your telegram of this corning have all been received, and in reply so be; to say that so will have a convessor at Harleton to-morrow of the next day, and after he finishes up there he can so to St. Carmel.

If we close a contract with the Manleton company before
the let November, we will undertake to put the plant in and have it
runniam before Christade. A canvass of the sown should occupy
about four days, and a week after its receipt in this office we
could have the maps propered and the ostimate turned out.
Just here we wish to remit, that we are feelly surprised that the
broath of the Wellefonte Company has taken away by our estimate.
For a plant of that size, (\$1,000.) we considered the estimate
very fair. We will, however, comply with their request and sand
thom an astimute for a 300 light plant at the eurliest possible

Very truly yours.

··· S.J

October 17th.

Custay Soldan, Esq. Sups. .

104 Coorel Street, City.

Bear Sir:-

"Concerning the "H" dynamo, the small square headed belts used in clamping the connections on the head board should be stouter. I found two of thee headly bent here, and I broke one at Shamokin. Then I was in new York I provided myself with two spare ones, or I should have been obliged to have had some made here. The two stop pins in groove of rocking arm are useless and in the way, I have had thus chirted warrecase.

I thought you might like to hive the above remarks from the Andrews, as he is probably one of the best pasted men we have at the present time.

Yours truly,

SA

Electric Pen

Octuber 17th

John F. Rygers, Esq.

idd India Square,

Boston, wass.

Doar Sir:-

We have your favor of the lith, inst., and very much regret the unavoidable delay which has taken place in supplying you with the duplication ink. Your having some made up for you and will sold it to you as soon as it is ready, which will be in a day or two.

Vory truly yours,

Jaly

October 17th.

John Ott. Esq.

283 Avenue B, City

Door Sarte

I seeless you herewith receipt for making the duplicating ink. Floase make up about a gallon of this and advise us when it is read/.

I also attach two statements, showing the amount of cabit (No.10) which has been delivered at 55% Avenue B for de. One shipment was made on detuber 11th, and the other was made yesterday. We shall be glad to know if you have received the shipment of detuber 11th, and if you are having the ware weighted, as it comes in, and stored in the laboratory.

In relation to mercary, we sent a box over to jour jestarday which we presume contains the missing article. Please fill all our orders for sulphate of zine and moreury as quickly as

ery trul/ yours.

Enclosure.c.

October lath.

occondi inci

F. J. Sprague, Keq.

Hotel Helmont.

bruckton, ass.

Doar Sirt-

I forward you per early mult chart of aidellotwen, Ohio, with mains and feeders marked off as per determination herewith, which please check and component if necessary, and return as early as possible.

Very truly yours

8 1/2

October 18th.

Gardner C. Sins, Esq.

Providence, R. I.

Friend Sims:-

blackgoarding the Edison business. It all comes out of some blackgoarding the Edison business. It all comes out of some decilings I had with him with relation to the sarvis-getting at lawrence. He told so that we clarke had undertaken to pay for the sotting, if we would order it jut in. I consequently ordered it put in, is it would cost us nothing, and or clarke street that he put in, is it would cost us nothing, and or clarke street that he fail not undertaken to do any such thing, so that the larvis moting was not put in. This irritated wright, and to relieve himself the talkes in a mannervte Rich which is hardly becoming to the representative of engage builders who have such a champion in six Edison. I should not have written to you about this matter, the but & heard of he wightly's remarks though another source. He is deputions a very good fellow, but he has not the ability to be discreet in what he says, and I should advise you to nive him a

I was very serry to mass urs, Armington, as I would like

to have seen her.

I have cubled home to my mother asking hereto wire Mrs.

Armington at Gueensland inviting her to stay at our house in

Jondon during her visit to that Gity. Pheuse tell Alice this, as

I told her I would send such a cable.

Yory truly yours,



October lath.

.

T. Adams, Esq.

City.

Dear Sir:-

Agreembly rith four request, I be: to sive four bollow on estimate of the probable running expenses in connection with the electric light installation which it is proposed to make at the deserve Flats:-

DATIY.

Electrician and meterman	3 3,50
One engineer, seven months	
Two engineers, five months	4.30
One fireman.	2,00
coal 4 lbs. E.P. per hour at 34, being	
3 tons year round	b.00
011, waste	
Water	1.30
Lamps at \$1. cach	
Insurance	
Depreciation (long)	11.50
Repairs	1.50
Stationery	.30
Vorward	do vio

Above based on a daily average of three hours use of the 4000 lamps during the year.

Taking into calculation that parties be absent two months in the year and that only 4000 out of 11000 lights is figured on, it is believed this average is correct.

Adding five for cent inferest on say \$100,000.; which for \$35 days is \$13.50 per day, the daily running extenses will be \$70.00, or \$25,670.50 yearly.

4000 burners burning oqual to five cubic fost of coal name would be 20 hs per hour of 40 hs per day of three hours average the running expenses being 370,60 daily, would bring the cost of each is equivalent to 31.1b. Enying cus at 52,25, would make a loss of 534,10 a day to the occupants of the Flats.

Interest at five per cent being already allowed, this

3

2014.10 would pay thenty three per cent more on the 3100,000, or alterather twenty sight per cent on the investment, and the investors shall obtain a vastly superior article.

fery truly yours,

P.S. With lot apartments, this would be 3770. For each, as investment and light bills would be about \$16.75 jer month.

netuber 18th.

T. Agams, Esq.

cit/

Dear Sir:-

Referring to your request for an estimate for the installation of an electric light flust and other electrical work at
the eight Mayarro wlats, 36th. Street & Seventh Avenue, I beg to
state that we will, with the permission of the Kalson Bloetric
lliminating Congray of New York, install for the gum of eighty
nine thousand eight hundred and fifty dellars (Sun, 830.) an electric light plant which till surgly at one time 4000 lights, naving
ton candles aspherical illumination, which is about equal to five
foot of coal gas as burned in practice. The plant can be forced
on gensions to run 4300 lights. The Balson Bloetric Illumination
company will guarantee that the life of the lamps will average
onesh, and will also guarantee that ten lamps can be obtained for
every indicated horse power.

In addition to the above, the amount named (Suc, 650.) includes the wiring of all the Plats for about 11000 lights, the wiring for telephones, electric bells and district telegraph calls to a central station in the Plats, the restoring of the platering where it is necessary to cut helps in the walls and collings, The

furnishing of exitch-boards and the fitting up of a central station except the telephones, which for will have to obtain from the Telephone Company, and also the furnishing and erection of speaking tubes throughout the Plats.

The terms of payment that I should require, if I contract is entered into, are as follows:-

Twenty five per contum of the amount of the contract on the signier of same, tranty five per contum when the engines, boilers and dynamous are in their place, tranty five per contum when the electric light installation is ready to supply light and tranty five per contum thirty days thereafter.

Vor/ truly /ours,

Day

October 15th.

Dr. O. A. Mosos,

153 East 77th, Street, City.

Dear Sir:-

I should like to see you semetime Saturda/ morning, if convenient to yourself, with relation to your are lamp shipped to Mr. Matchelor.

I have a communication from him in which he requests me to see you on the matter.

Very truly yours.

Paul D. Dyer, Egg.

Motrorelitan Batal

lansas City, no.

Boar Siri-

Your two interesting epistles of the lith, inst. were duly received, and I cortainly think that you deserve a putty modal for your bravery, and have no doubt but what your exploits will find a place in your Country's history. To face the brayes of the West most certainly requires a man of your spirit, and it is for that reason that you were chosen for the enerous and risky onterprise which you now have in hand. All I hope is that if the worst should occur that you will loave such directions as will enable us to dispose quielly of any balance of account that may be still be due to you in this office,

Whon you got through at kansas City return from the western wilds to the civilized and fertile regions of Kentucky and finish your canvass at Maysville."

Meantime, trust in God and Loop your powder dry, and remember that the man who gots his hand in his coattail first has the bost chanco.

Very truly yours.

. S. Insuir

Androws, Esq.

Franklin Fouse.

Lawrenco.

Doar Siri-

T have your favor of the lith. inst.

Ur. Edison thinks that what you propose for Shamokin would do very well.

Will you please let me know as early as possible when you think you will be able to start at lawrence?

Have you the ampore meters and the feeder indicators

Sauf, Gusul

J. C. Tomlinson, Esq.

City:

Friend Tomlinson:-

I enclose you herewith a letter from coorne H. Mackellar with relation to the claim of Charles E. Rocap.

We owe charles & Wocap about \$1,400., and which we proposed paying him if he had not taken this means of bringing it to our notice. What he refers to as a comprehise of account never took place at all. Now if we were to let Charles & Rocap sue, it would take hims cortain time to win his suit and would also cost him money in addition. What I want to got at is about what it would cost him, and also how long it would take, under the most favorable circumstances, to gain his suit; Then I propose making a sottlement with Mackellar or having you do so for the amount of \$1,400., less what it would cost in Rocap to sue us, and I will exided the payments over the same period as it would take him fo win his suit, in fact I propose getting even the the young gentlement, in fact I propose getting even the the young gentlement. What he claims is an amount which Mr. Edison made him a present of. If you are anywhere neaf Mackellar's office to-morrow you might call and see him and show a little fight, and state that

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1

the letter has come into your hands in the absence of Mr. Edison and his grivate Secretary.

Very truly yours.

October loth.

. .

". J. Jonks, Esq. Banager,

Edison Electric Illuminating Co.

Brockton, Mass.

Door Siri-

. I shall be glad to hear from you as to when you will be prepared to take ever the station and run it independent of any assistance from my poople.

Very truly yours,

October 19th.

3.

A. E. Beach, Esq.

≥31 Broadway, City

Friend Beach:-

will you proceed with the publication of the article on "storage battery". One alteration, however, should be made on the seventh line of the seventh rage of manuscript, change the figures ly to 37, as they ought to road 37 instead of 19.

Can you manage to publish the article in your next issue, as we should like to copy it from your paper into the next bull—letin to be issued by the Rdison Rectric light company, but of course we cannot do so until arter your publication of the article has taken place?

Very truly yours,

J.a.E.
J.

October 15th.

H. Jard Toonard, Esq.

care Edison Electric Illuminating Co.

Coar Sir:-

Your letter of the 13th, came duly to hand.

The report you sent me is exactly what I want.

fith reference to carrying three wires into a house, I thin; it is necessary in small plants to divide the lights partly on to the "A" and partly on to the "P" side.

With reference to your complaint that it is impossible
to see how many lights are on one side and how many are on the
other, the variation in the empere meter every evening ought to
show you what you want in this connection.

very truly yours,

Jae

October 19th.

Charles tatchelor, Esq.

Paris, France.

by Doar Matcholor:-

Referring to your favor of the 4th. inst.,
the reason that we charge so much for our 300 light machine is
that we have so few orders that it is impossible for us to sell
changer: In addition to the mark cost of the machine, we have to
stand all the heavy experimental expenses at the Sachine Works, as
owing to troubles I have had with the Light Company I decided I
would not put in any payments to them for this kind of work.

Very truly yours,

Jac

October luth.

3

N. W. Pratt, Esq.

care Pabeock & Wilcox Co.

30 Cortlandt Stroot, City.

Com Sir:-

Sr. William Burrows, Freight broker, of 4s Broadway, called on me this morning seliciting our freight, and montioned your name as a reference.

We have a very areat deal of freight, and in order to got good rates and proper attention, I have for sometime been thinking of the advisability of futting it into the hands of a broker.

will you please advise me what you know of Mn Burrows, and what your Company pay him for any business he may transact in the business above referred to, and by so doing you will very greatly oblige,

Yours very truly,

V.

October 20th.

Otto A. Hoses, Esq.

City.

Doar Sir:-

I have received from Mr. Ratchelor a lotter dated Octobor 5th, in which the following paragraph occurs:-

"Now about Moses lamps, I have written Moses twice but get no answer. It was understood by Mayarre and myself and Moses that they should send no 0 lamps to Antwerp and the models to France to manufacture, on this I teld Bermann that they would sond me 0 lamps. Now the fact is I have received here 0 lamps in Peris, and I don't how whether Moses wants has patents protected, as I amnot get a word from him. In the meantime there are pouple erying for are lamps. Will you please tell goods about this and if I dont get any answer from him, I shall simply put them up here and he must look after his patent interests himself. Of course there is no question about the price, but the people here have paid for these lamps, and feel hurt because I wont lot them put them out to the public."

Will you please let me have your answer to same at your

1883-10-20

early convonionce, so that I can roply to En Batchelor's letter.

Very truly yours,

58

ctuber 20th o

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have your letter of the lith, inst, and your telegram of the section of the section we sent you.

In reply we would say that the long upright from door can be put in party wall with safety by placing a tight weeden door outside of it. I attach a sictch and explanation which I trust will make the matter clear, and convey to you the way in which we understand the matter and our solution of the difficulty, which latter we would prefer adopting instead of londhening the beiler roce, and we trust you will give it your consideration and avoid making the extension referred to.

In reference to grate bars for the Brockton regions, or have to-day sent to an Sprague a bill of lading, and they went forward on the luth, inst. We have an invoice from Bosars.

Babeech & Walcox charging us with these bars, and as the cost is

Sus, we shall be glad to know, if, in your epinion, we should juy the amount. We think we understood you to say that there was spine defect in the bars supplied with the beller, and that these

had to be sent to reglace them. desire to refute the charge.

Yory tral; jours, Zuk

October 20th.

- 3

C. H. Cooka, Esq.

Clobe Notel,

Syracuse, N.Y.

Doar Sir:-

We have received four latters of the 17th. inst., torether with map and canvass of Auburn. When we are through with the former we will return it to in D. M. Osborne.

We wired you tu-day to canvass Endson and Loughkeepsie on your way to Mew York.

In reference to counting the number of lights in each store once on Saturday night in order to get the difference in the amount of consumption or that evening from the balance of the week, we consider that your canvass should embody this information, and shall be glad if you will always cond it to us in places where there is such a difference as you mention.

Yory trul; yours,

2ak

0ctober 22nd, 1883.

Gustav Seldan, Esq. Supt.

Edison Machine Works,

104 Goorck Street, City.

Hy Doar Sir:-

I find that your system of charging everything up to stock and themscharging it out ugain to various orders on which the machines are being stated one not work at all well so far as my office, is concerned. We are having endless trouble is trying to decipher the alloged memorandumof material used, which monorandum are propered by he bodge. If the system, which I inaugurated on your suggestion, is persisted in it will result in an extra expense of about \$50. a week so far as my clorical force here is concerned, and such an expenditure is entirely out of the guestion. The petter of the two, and I write to inform you of this, as when I got back to town the endoof this wook I wish to arrange with you to return to the old method of steel keeping.

Furthermore, when a few days back Mr. Edison enquired of me the mothed new purceled as to this matter, I informed him that we were dependent for the charging of our material entirely to memorangum prejared by Mr. Bodge, and Mr. Edison politicly informed me that enger such circumstances he would not consider my books worth a damned. As he has absolutely no confidence whatever in any statements proposed by Er Dodge. No gives as his reason for this, that Mr. Dodge made so many mistakes while engaged in the marking department of the Edison Electric light Compan, and all of which mintakes were of such a character that it would be impossible for him[Mr. Edison] to have any confidence whatever in the work of any one capable of XMXXXXXIII such mistakes as I refer to.

Yory truly yours,

Ostober 24th.

C. F. Bruckett, Esq

Frinceton College,

Franceton, N. J.

Deenear hr. bruckett:-

I beg to acknowledge with thanks your letter of the 18th. inst., which we once before received without signature.

I should turn great plausure in going to Frinceton to see your dynamemeter in action, but unfortunately my present press of business prevents my leaving New York. I have asled Mr Clarke, the angineer of the Edison Electric light Company, to go to "Frinceton and examine the instrument.

Very truly yours

Jaky

October 24th. 184 3

Gustav Soldan, Esq. Supt.

·104 Goorek Street, Gity.

Doar Sir:- -

In relation to the flexible cable used on the "is" dynamos, we consider that this should be more thoroughly ensulated. The resent inculation is liable to wear off and cross the poles on hase, and we shall be glad if you will give this matter your consideration.

Yoursttruly,

2 ahry

October 24th

Cossrs, Lorgsonn & Co.

203 Avenue t, tity,

Doar Sirs:-

We are informed that you are sending fixtures to brockton wired with white wire without any tape. This will cause
very serious trouble, as the covering absorbs moisture and causes
a decided load, and since this defect has been regarded by everytap who has had any experience with the wire, we consider it very
bad pulley on your fart to supply such material, but fool sailsfied that when we call your attention to the matter you will have
it adjusted.

Very truly yours,

cber 24th. 3

W. J. Jonks, Esq. Surger,

Edison Electric Illuminating Co.

Prock ton, Rass.

Dear Sir:-

keplying to your favor or the 17th. inst. to in Zalson,
I had to day that it is his intention to go to breakton just as
good as he can leave her York.

For the past few days he has been confined to his bed, but we expect to see him out again to-day or to-morrow.



October 34th.

F. J. Sprayue, Esq.

Hotel Belmont,

Bruckton, Pass

Dear Sir:-

In relation to safety entenes, we her to say that the white plurs are all right. Forgmann sont a let of had plugs to brock ton semetime are, and in our opinion those each to be returned. If you will hant these up and sont back again weewill have them replaced by new ones.

Taky

P. B. Shew, Ecq.

Williamsport, Jenna.

Donr Sir:-

We beg to return berewith letter from Mr Schwenk in reference to ft. Carmel received with your favor of the 20th. inst.

whe are having a convers made of this place with all poscible despatch. Our converger is at the moment in Farleton, but will in a day or two po to bt. Carmol and send us the necessary data to got up plans and estimates.

In regard to the people at that point having secured the ground for a central station, we consider it rather a mistake to be too premature about a matter of that kind, as the location of a lot may make a considerable difference in the amount of our estimate.

In regard to my going to Mt. Carmel to etake off the building or for other jurposes, at the moment it is impossible for he to leave New York, and in any event I hardly think that the laying out of the building is such a serious undertaking as to require my personal attention.

We will rush this matter through just as quickly as possible, and write you again when we have something definite in connection with the estimate to submit.

Very truly Years,

Enclosure, D.

October 24th

F. B. Shaw, Eso.

Williamsport, Penna

bear Sir:-

We beg to emilion a letter from Dr N. C. Sticker the Chief Purgess of the town of Filton, Pa., in which he enquiries about the cost of the electric light. As it is in your terminary and the cost of the electric light.

very truly yours.

Taky

Enclosure, H.

October 24th

:3

M. F. Moore, Esq.

City.

Door Sir:-

In regard to Sr Galley, I shall be glad to do what I can to got him a situation.

I think the German Company asked for a meterman, and it would be a good idea for Oakley to go to corganan's and George Street and Jearn all about making motors. We would also have him coached in the interests of the commercial part of the business, and when he has completed his education we can then send him to replin.

Yory truly yours

Tak.

Cetober 24th

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We beg to emplose you herewith duplicate bills of lading together with shipling list of the Fall River beilers which went forward on the 32nd, inst.

With relation to first-rick, we would like to know if you use any firebrick lining in your stack foundations? You will notice that in all of our estimates we include 14? of brick stack with this description of lining, but if in practice this arrangement is not observed and if you do not consider it necessary would like to know about it in order that we may in future leave it out. If the estimate

Very truly yours,

Zae,

October 24th.

W. D. Rich, Esq.

care Edison Flectric Illuminating Co.

Fall River, Bass.

Doar Sir:-

I am in receipt of a lotter from he Spranue at brockton, who mays that they had make the loth and to account of the exhausts from the dynamo everflow pans leading into the empire exhausts. The drap pape races after leaving the characteristic and a second or all the exhaust and incommentation of the exhaust and incommentating that is sensetimes forced into the everflow pans on the dynamon and large quantities of mater are threshoot from the exhaust, after being lifted not less than thirty foot. While I was at brock on this size trouble becauted twice, and I was fraid that some day the consequence will be very scrious. The drip should fall instead of reside, so that the externally true off, and I wish you would limit now the matter your machinists attention.

Very truly yours,

October 24th, 1992

Ball Engine Co

Eric, lonna.

Door Sirs:-

toplying to your favor of the 17th, inst, in relation to our making a trial of one of your employs, we bot to say that we should be plad to make a test of a s 2 x 12 engine, which would requare as inch pulley. It would be necessary for us to keep this engine one menth, and if you are agreeable to bear the exponsed in connection with the text, freight so, we will be plad to make the trial.

Voty truly yours,

Jal

October 24th.

John Campboll, Esq.

lock box 687.

Hittsburgh, Fenna.

Doar Sir'-

I have your lotter of the leth, inst., and in refly regret to state that there is no position here which I can error you at the freeent time.

I shall book your name before me and shall be read to do anything for you that I can in my can business, but outside of that I four my influence with Mr Cerrett would not attain the end you doning, and I furantly profession to Communicating with him for this objects professions.

Youry truly yours,

Taky

October 34th.

J. S. Andrews, Esq.

Franklin louse,

lawrence, Mass.

Dear Sir:-

would say that we have referred that fortion which relates to the shrety caseh thush nuts to the proper parties for their attention, and have written on Soldan in regard to the flexible cable on

It is not our intention to send a lightning arrester for lewronce, as the system is underground and does not require it.

The meter scales are quite large enough to weigh 100 lighter places.

Very truly yours,

Jaky

October 34th.

William Purroughs, Esq.

49 Broadway, City.

Door Sir:-

Would you kindly call at this office any time you are passing and can find it convenient to step in, as 7 want to see you about placing our froight in your hands.

· Very truly yours

Jaky

Very truly yours.

October 34th.

3

7. S. Andrews, Esq.

Pranklin Pouse,

lawronce, wass.

Door Sir:-

We have your letter of the 16th, inst, in relation to the connecting up of the fields of the 40c and 80c light dynamos together, and in reply her to say that we will have these boxes made so that they will so together.

In regard to having feeder switch and safety catch relder in one piece, I do not think this would always be found to work well and should advice keeping them separate.

Very truly yours,

Jaly

Getober Zith.

George W. Wilbur, Esq.

lost Office.

ht. Garmel. Fo

Doar Sar:-

We have your letter of the flat, inst., and in reply would say that your canvass books are not quite completed, but we have to be able to send them to you in a day or two. We ordered show to be made with 150 pages and also instructed the printer to leave more recently against a ma "sature of business."

The kt. carmed poulde brovery anxious to have an estimate for an installation at that blace, and we wish you to get the carries in the errice here at the carliest possible moment.

very truly yours,

October 26th.

William Schwonk, Esq.

Mt. Carmel, Fenna,

Dear Sir:-

to say that the curvass of his darmed will arrive in this office to say that the curvass of his darmed will arrive in this office in a day or two. The maps will then be put in shape and the estimate made and forwarded to in Shaw in a very short time.

Untill we know the size of the limit required, it is impossible for us to make any comments is to the engines or other material that

ory truly yours,

October 26th.

3

najor s. b. sator

Ulty

Dear Sir:-

Referring to the attached we bon to say that there was no mistake in the plans of the Pall River building. We had this building so arranged that it would secundate the extra boilers necessary to be supplied when the fine case for increasing the capacity of the plant, but this we arranged in such a manner that to clean them out it was necessary to entay them from the top "which is a yery common thing to do. The Pall River people thought that they would prefer to have them so arranged that access could be acquired from the sides, and as it was merely a question of obliging these gentlement of decided to yield to their views and consequently gave instructions to have the building lengthened six foot, which has been done.

Very truly yours,

fortland

October 28th.

3

Kossrs. Harris & Robinson,

Room 2, Trust Go's Fullding, Hartford, Conn.

"Doar Sirs:-

We here to onclose you herewith estimates for the installation of Edison Rlectric Hight Central Station plants at Hartford and Southington, conn.

The former is for x 3200 lamps capacity with street installation for 4452 lights and amounting to 372,633,231 and the latter for a plant of 950 lamps capacity with street installation for 970 lights and amounting to 320,030,40.

Our bid for the stroot installation in the Southing estimate is Sax based upon the same conditions as not forth in our letter to you under date of the 22nd. inst. You will notice that the cost per lamp in this estimate is Sal.71, which is 37.44 less for lamp than the doo light plant, and further it only costs 33,142.71 to increase the capacity of this plant from doo lights to 630 lights, which is almost three quarters larger. In view of these facts we would strongly advise the adoption of the 530 light estimate as being the end more satisfactory in all respects.

In relation to the Martford estimate, this is based upon the assumption that the control station will be placed upon

the \$10,000. let, the size of which is du x 40 and situated North of Allyn Street between Ann & Trumbull Street. We explained to your Mr. Harris, when he was in New York, that all our plans for Hartford had been getten out upon the assumption that the let we wore to use was to be 30 x 40, and that if the 40 x 40 let wis substituted it would necessitate our cutting off a portion of the building which would admit of the plant being increased to 4000 lights only, unless it were possible to get more land when required at the back, so that the building alpht be extended. The cost per lamp of this estimate is \$322.70 which, without taking into consideration the very lamps about 70 lights covered by our proposed district, namely, 4493, is we consider a low bid.

that we enclose statement of the daily relating expenses and frobable profits on a capitalization of 330,000, for a 400 light plant at Southington. Wore you to install the USO light plant, the increase in the daily running expenses would be so small as to hardly be visible, while the per cent for dividend on the capital invested, which latter need not expected, which latter need not expected, when larger than that shown on the enclosed statement.

[&]quot;in the emelosed estimates together with a plan of the arrangoment.

of the Southington station.

Yory truly yours,

Tale

Enclosure.

October 26th.

. .

.. v. sprague, asq.

Hotol Bolmont,

Brockton, Mass

Dear Sir:

I onclose you herewith lotter from Un Batchelor of Faris in reference to the possibility of working more than two amperes per millimetre on the underground conductors &c.

Please give me full replies to all of Mr. Batchelor's questions, in order that I may transmit them to him, and also return his letter with your monographies.

Very truly yours,

Jai

Enclosure, A.

Frank H. He. Commick, Esq. Prest.

Edison Electric Illuminating Co. of Sunbury,

Williamsport, Ponna.

Doar Sir:-

We are in regent of your favor of the 3rd, inst., and in refly ber to say that we are not in the least surprised to hear of the number of broken laws in connection with your system at Suntage.

who have received information from our areat, in commit, whom we sent to inspect your plant and ascertain the cause of such breakare, and we find that you have been running these large not at ten candle power as they are intended to be run but much nearer twenty. If this course is pursued you cannot but expect to have a very large per cent of breakare. The large we sent you were some of these made up a short time since at the factory and the best that we have yet produced.

When Dr. Det-rlog was here in New York he visited this office, and during the course of conversation he looked at our lamps and asked the candle power, remarking at the same time that they were not as bright as the light you were supplying at Sunbury. Those lamps of ours were giving at least eighteen candles, so it is therefore quite plain to us what the cause has been to result in

2

such a large breakage of lamps as you report.

car agent, who was in Sunbury a few days ego, advises us that Hn Harr gave positive instructions to the engineer in charge of the Sunbury station to run the dynamos to their fullest capactly. He (our agent) explained to the engineer the disadvantages attendant upon such a proceeding, and regulated the lights.

of light equal to ten cambles for each last installed, you sill rind that your broukage sill decrease very rapidly. It is much cheaper if customers want more light from single last to supply them with an article designed for a more extensive illumination, but to try and get twenty cambles from an article which is only intended to supply half that number is fatal to the long life of the last.

Trusting that in future you will regulate the light

Vory traly yours,

Jaer

3

chomas F. Conant, Esq.

care Edison Electric Illuminating Go.

Shorokin, Penna.

Boor Sart-

This will introduce to you an 1. C. Walker, whom I am sending to Shamelin to obtain whatever information you can give him in reference to our system of house string or anything also he may desire to lines. On Talker will bring with him samples of the new ware which we are going to use, and he has such instructions from not that he understands the application of it, and I shall be plead if you will give him all facilities possible to enable him to obtain whatever information be required.

very truly yours

Jak

W. F. Bouty, Esq. Frest.

Edison Electric Illuminating Co.

Shamekin, Forma,

"boar Siri-

We have your letter of the 23rd, inst. complaining that the cystem at Shamelin has been working badly.

We received a letter from an commant explanation the cause, and it expenses that a number of trees have been retting mixed up with the wires and causing croses on the line. This or course is a matter which can be very easily resedied by having the trees of the received or transed, so as not to interfere with our system.

one of the enrines was working badly, and we wired him to have it tuben off and the flange brightened up, which will relieve all trouble.

We do not see that anything has been row which would necessitate our sending unytedy to show with the parties there at present are fully competent to deal with the difficulties which have arisen.

Vory truly yours.

Tale

October 23th.

J. F. Rugers, Kage.

63 India Square,

oston, Hass.

Door Sire:-

We have your latter of the 25th, inst., and exect application for the delay which has talon place in supplying you with the duplicating inl. It is an article which we have not dealt in for such a long time that the recipe became explaid and had to be hunted a, which took agest time.

Ye have, however, much pleasure is stating that we be forwarded to your address by express yesterday one bettle of this ink. When you require any more than in we will be able to supply it fore broughly.

Very truly yours

Dar

October With.

- -

E. U. lord, Esq. Treas.

Edison Sleetric Illuminating Go.

Dear 17:-

We be to acknowledge receipt of your favor of the high, inst. in reference to a metersam, and in reply would may be that we very much regret the delay which has taken place in furnishing you with much a person, but as this hind of a man is not fitted up anywhere and we have had considerable trouble is finding one. We have pleasure in stating that we have, however, succeeded in securing the services of a first class motorman who has had charge of the weedle plant for some time past, and will report for duty at lawrence me later than the last finst, and before that if at all possible.

Vory truly yours,

Tak.

- October 29th

P. . Jpton, Esq.

East Nowark, W.J.

Dear Sir:-

In relation to broken lamps received at avocation, do

you not think it shall be a good idea to pack a half a dozen lamps
and handle them roughly in the laboratory, that is experiment on
different manners of racking

Yours truly,

Tak

Oc tol

W. J. Garrison, Esq.

137 Foderal Stroot,

Boston, Mass.

Dear Streamison:-

In roply to your letter of the 22nd. Inst.,

Tasking about the Daft Electric Railway, I should advise you to tell

Your friend not to put a cont into it. It is simply a "catch".

Very truly yours,

Ine

October 20th. 3

Goorgo H. Hopkins, Esq.

137 Temple Court, City,

Dear Mr. Hopkins:-

Many thanks formyour letter of the 26th, inst.

in reference to the Sweet high speed engine more being exhibited at the rair of the Aserican Institute. I shall have much pleasure in going to see it in operation.

Very truly yours, .

2al

October 29th, 1883

Gustav Soldan, Esq. Supt.

104 Goerck Stroot, City.

Dear Sir:-

There is a paragraph in Defect Report No.54 to the effect that the wire bands binding the armatures got loose and cone off on the machine which we installed at Harrison, Havemover & Co. shortly after starting. These armatures should have wire bound around them as in the central station machines. We never had trouble after we did this, and if you want any further explanation Milly Wright can give it to you.

Yours truly,

Dak

October 20th.

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A. Stuart, Esq. Socty.

Cincinnati, Onio.

Doar Sir:-

In order to complete our map of springfield, Ohio, it is necessary that we should have a correct chart of that town. We have written to the City Emineer twice asking him to make a tracing of his map, but without result other than that our letters have remained unengaged. Would you in any possible way obtain what we require, as it is absolutely necessary that we should have it forors we can complete our work, and we shall be glad to hear from you at the earliest possible moment.

Very truly vours.

S Jy

October 29th.

W. H. Douty, Esq.

Shomokin, Penna.

Doar Sir:-

We beg to acknowledge with thanks the receipt of your favor of the 23th, inst. enclosing Mr. John Mullen's check on theb Shamekin Banking Company for \$1,000, on account,

In relation to putting your plant in proper shape, we have already written you on the subject, and trusting that you are meeting with no further difficulties, we begin to remain,

Very truly yours,

Jae

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Octobor 31st.

3

William O. He. Dowell, Esq.

130 Jiberty Street, City

Doar Sir:-

I boy to acknowledge receipt of your latter of the 27th.
inst., and in reply would say that there are so many calls made
upon my jurse and as I am not interested in the Edison lump
Pactory, except as a stockholder, I do not feel that I can comply
with your request.

T return the list herewith, and beg to remain,

Very truly yours,

Enclosure

October 31st.

_

John F. Rogers, & Co.

62 India Square,

Boston, Pass.

Doar Sirs:

We are pleased to see that by your letter of the 27th.

In relation to an invoice, we cannot not a price upon what we have forwarded you, but will arrange with none stationer in liew fork for the manufacture of the article and will advise you as to where it can be precured in future.

Very truly yours,

Dak

October 31st.

3

E. S. Marsh, Esq.

/23 East 23rd. Street, City.

Doar Sir:-

Referring to your favor of the 21th, inst., I bog to answer as follows:-

FIRST. The Phonograph is an invention of mine, but nothing has been done such it for the last few years, as my time has been so fully occurred with other matters that I can hardly say mether I shall be able to give attention to it further on.

SHOOM. Electricity is already supersodian and performing the present functions of cas and Steam, but her least it still take to determine anyonity of the business it is deficient to say.

THERE. I must refer you to the books for theories about the dature or electricity.

POINTH. my laboratory is practically closed at the present time, and there is nothing of any considerable interest to a student being done there.

Yor/ truly yours,

October 31st.

W. Proston Hix, Rsq.

936 West Main Street,

louisville, ly.

boar Sir!-

of Greene and Alleysbetween Second and Third Streets, upon which is situated an old brieffing x 100, price \$11,000, together with shotch of mane showing the position of the house in relation to the Boundaries of the lot in accordance with the spaces marked for distances on the slotch below.

Vory truly yours,

laa.

E. H. Iord, Esq. Trons.

Edison Electric Illuminating Co.

Dear Sir:-

We have your letter of the 27th, inst., and in reply bor to say that we have mode inquiries from the makers of the balance, which we sent to lawrence, and find that you are right in stating that the capacity does not reach the grazues,

We will order for the use of the lawrence company The is balance to replace the one you now have, which latter we can use where 100 light meters are not called into requisition.

In relation to motors, we understand that your Order No.1 called for fifty motors of 12 lights, twenty five of 25 lights and five of 30 lights, but indshich as we considered this arrangement footh unequal and insufficient, we doesnod it advisable to make a giou arrangement and supply you with a cortain member of onesh of the different units, the aggregate cost of which would be the same as those which we first proposed to supply. We shall, "however, have much pleasure in complying with your request to exchange the 12 light meters for an equal number of 25 lights capacity and the 33 light meters for an equal number of 30 lights capacity. We will also have the increasury plates and wibber parts

2

for the 12 light motors cent you without delay.

We presume you understand that the caracity of these meters is gauged upon the assumption that each light to be recorded by them is of 10 candle power, in other words, a 6 light meter is capable of recording ten 10 candle lights, a 12 light meter records many 10 candle lights, a twenty five light records forty 10 candle lights, a fifty light records oughty 10 candle lights and a one hundred light meter will record one hundred and sixty 10 candle lights.

Vary truly your

Zah

ctober 31st.

W. H. Dwelley Jr. Eng. Treas.

Edison Electric Illumination Co.

Fall River, Mass.

hear Sir:-

stating that Fruesi's men have been ordered home for ten days, and in reply to your query as to why you are being newlected we beg to say that inamsuch as the tubes will not be ready for ten days, we do not see the necessity of keeping a lot of men laying idle in Pall River and paying their expenses. You can rest essured that we are fully alive to the necessity of pushing your work and this we are doing to our utmost espacity, but we must really ank your will end to our utmost espacity, but we must really ank your are doing to our utmost espacity, but we must really ank your alittle patience and placing a little more confidence in our capability of keeping the premises we have made to you, namely, to have the Fall River installation completed at the carliest possible amount.

We are in receipt of your telegram of to-day's date

Vary fraily water

2ak

7. H. Dout/, Esq. President.

Edison Electric Illuminating Co.
Shamokin. Ponna.

Donr Sir:-

"I have your letter of the 20th, inst.

I am very sorry that you should object to the use of the double wire at Shazakin without first enquaring of me as to the facts. The New York Shared of Mire Underwritters do not trouble us in the least, except incide of Mar York City. In towns like Shamakin they do not interfere with our business at all, as the property involved is comparatively small and, furthermore, I am confident that eventually they will sanction the use of the wire sent you. So far they have not refused to sanction its use, and the matter has gimply not been brought before them. I think that you make a great mistake to refuse to have it used at Shamakin.

Tal

October 31st.

C. E. Spoirs, Esq.

care D. Van Nostrand,

23 Murray Street, City.

Dear Sir:-

will you please let me know per bearer where we can

"find "Archives of Pharmacie"?

Very truly yours,

Toudenen lat

Thomas P. Conant, Esq.

Tonyors National Fotol,

Shamokin, Ponna.

Onar Siri-

I send you by this mail a copy of the questions on dynamos and engines and bullers and shall be glad if you will occupy your time by contributing to the literature of this establishment by answering same.

Vory truly yours,

رگ-

Movember let

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition,

Louisville, ky.

Dear Sir:-

I send you herewith a set of questions on the meter, dyname, emaine and boiler. Will you please answer same to the best of your ability and them back to us at your convenience.

ery truly yours,

3

Nevembér lst

W. H. Dwolley, Jr. Esq. Treas.

Edison Clockric Elluminating Co.

. Fall River, Sass.

Dour Sir:-

Your favor of the "lat, ulto, case to hand this sorning, and the tone of it surprises so extremely. You refer to sin knucsi subjecting you to delays as if he was doing so intentionully. Cannot you understand that it is impossible for his son to be of any use in Fall River datillhe has the second theor ready to lay. We are just as anxious as you are to have the plant installed quickly, but so sust protest short deficiently departs the frequency and unreasonableness of your complaints.

Allow no to suggest that it is quite presenture on your part to ank on the first of November how we propose to get your plant running by the endoof covember. I would remaind the that you were warned before the contract was closed that there would be considerable dalay unless your tempers guaranteed the cost or the tuber, so as to enable us to order size in anticipation of our closing the contract, and I would further remaind you that you presided to send us such a guarantee and that you failed to do so, and any complaint that you now have to make so to the delay should be made to yourself for failing to send us the guarantee above.

coforroging and not against us.

your tubes completed before frost sets in has been sufficiently childrend upon and that a restition is entirely unnecessary, and L would again beg of you to exercise a little patience, inasmuch as working only twenty three days have classed since the contract with your contant was closed.

The work will be done in the best manner possible and will be started as soon as possible. The laying would have commenced at least live days are if the guarantee from you as to the tubes had been sent at the time we usked for it.

To talk of Mr Erwari additing the responsibility or putting off laying the tubes, Seems to me an absurdity. It is to my interest and to Mr truesi's interest that the laying should be commended as early as possible, although my assirtions to this offer do not now to earry any saight with you.

As to none but competent men being employed, I have yet to find that it has been our habit to employ incompetent men, and the troubles that we met with in Lawrence and brockton are such troubles as we fully expect to seet with at Fall River. If you

can tell us how to avoid that I am sure we shall be very glad to resolve your advise in the matter.

Very truly yours,

l

Covember 3rd

Ž.

D. Boran, Esq.

conoral Supe, of Construction,

Wostern Union Telegraph Co.

led troadway, city.

Bear Sir;-

on J. Biblor, of 15 Shirman Avenue, Mearl, N. J., ban applied to see for a pointion in exemption with the execution of pleasure, and refers in to you for information as foreman of gasts, and refers in to you for information in to gast a pointing in the information. Can you so far obline me by giving me this information?

Very truly yours,

2ak

November 3rd

D. H. Bates, Esq.

Western Union Tolograph Co.

. 105 Broadwdy, City.

Dear Sir:-

And J. Histor, of 1.77 Shorman Avenue, desain, J. J., has applied to me for a jointion in commention with the erection of Cleatric light lines, and states that he has had thereon yours experience as foremen of 1.2.8, and refers me to you for information as to his emphilities. Can you so far oblige no by giving up this information?

your truly yours,

2ar

Movember 3rd.

3

Richard Vause, Esq.

Hatal Moreury.

Durban, Katal.

Door Sir:-

Maforrine to your favor of the 17th September, which has been forwarded to so by the Lindmons of in Charles V. Miley, the Consul Ceneral of the Grange Francis, Philadelphia, Fenna, I hop to state that possibly my Phonograph might be avuilable for the purpose for which you suggest. It would, however, require considerable improvement before being put to such use, and my time at the present is so fully occupied with other matters that I mainfraid that this will have to stand over until I have more lossure at my compand.

fours yory truly,

Tag.

7. S. Androws, Esq.

care Edison Electric Illuminating Co.

lawrence, Mase.

Odar Sart-

on Oalley, the neterman when I sent on to laurence, was at Comelle for some time. He seemed to answer most of the quantions very wall, but he has not had that experience with our sort which would qualify him to such im extent as comman.

If we love should make any remain with relation to him you might may that we Comman will be to Tearring shortly, as immediately I

can get him away from Shamokin I propose to sond him to you.

Yory truly yours,

Bovember Brd.

Thomas it. Comant, Esq.

Weavers Entional Notel

Shamokin, Ponna.

Door Sir:-

I am in receipt of your lotter of the Mist. Getebor, and I cond you herewith map of the town of Massolin, and shall be all and if you will trace thereon exactly where the present lines u run, and where the feeders join the mains, also indicate on the map the position of the proposed hew line with the position and prehable manher of maximum lemps at each point marked thereon.
To can then have the sizes of wire determined here in the effice.
If cann attend to this right army and we will return the map to you in the course of a day or so.

Yory truly yours,

Tac

Novomber 3rd, 1883.

W. W. Swelloy, Jr., Esq. Treas.

Edison Blockwie Illuminiting Go.

' Fall Sivor. 1

Doar Sir:-

We are in receipt of jour letter of November and., and will have the two 330 light dynamos shifted forthwith.

The torms of regions on which we sell to the Indiated Company and cash on the delivery of the machines. Will you believe advise us as to now we are to get parents from your

ory truly yours,

By Al

ovomber 3rd.

E. H. Ford, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Doar Sir:-

in onliny, our notoman, lost hore the day before yearterday for Lawrence, and I shall therefore be alad at you will limity comply with your presses to send me a check for \$10,000. Yours very bully.

2 ay

Joyombon Snd

Societo Electrique Edison.

33 Ave de 1º0. ove.

Paris, France.

Boar Sirs :-

T have your favor of the 17th, October, and in reply would be to enclose you copy of a letter which I have received from the Prencis R. Byton, the Hangger of the Lang Gospany.

I would point out to you that no guarantee has ever been our riven that the life of lamps would be of 600 hours duration.

I cannot possibly conceive how our lamps should have been subject to such heavy breakage, unless they were run at very high candle lower, as the lamps are of precisely the same character as we are now using in this country and we hear no such complaints here.

Any test as to the life of lamps would of course have to be made in a regular manner, with a constant electro-metive force and the lamps run at the volts they are incomed for.

very truly yours,

I ai

Enclosure

Rovembor 5th.

W. I. Iwelley, Jr. Esq. Treas.

Edicon Electric Illuminating Co.

Dear Sirt-

In a letter addressed to Sajor Saten by Mn Sponsor Borden of the New England Sajartment of the Edison Electric light Company the following occurs:

"Bouse of our large stochholders are builders by trade and critleise the character of the work brickwork that is noing into the building. An Bow told me within a few days that one of the best massens in town said he thought it was shapeful to put a Shilding' torother as this is being constructed."

Our Superintendent, In Rich, was here yesterday and we drow his attention to the above, and he informed us that un Jerome Forden, one of your Building Consisted who has taken an active interest in the work, has expressed hisself as being perfectly natisfied, and he also stated that there was no reason whatever for the complaint. As we have not received from you officially any complaint as to the character of the central station work, we shall be glad to hear your views on the above remarks of Mr.

meet with the entire approval of your Company.

Very truly yours,

206

November 5th.

Faul D. Dyor, Esq.

St. Cloud Notel,

Canton, Ohio.

Dear Sir:

Will you please inform me at your earliest convenience how soon you will be through in un Stuart's territory, as I want you to go to New Orleans?

fory truly yours,



- :

C. li. Johnson, Enq.

Stat Avenue h, City.

De Dear Sir:-

I had a tall with he Peiron last might with relation to the tage and for un by the Ambonia Congony, and he requested A had to see you about rotting the most passed on and approved by the Board of Fire Endownitors.

I wash you would speak to him about the matter and take it in hand right away, as our control station business is seriously affected by the coubt existing as to whether the heard will allow us to use the time.

Yours yory truly

S-J PJ d. H. Mooro, Ksa.

Rahway, N.J

Dear Sir:-

I reserve very much to hear that you are about to sever your connection with the Edison Company for Isolated lighting, and it affords me very great pleasure to testify to your ability and industry in connection with the various matters that you have had in charge on my behalf.

Your trij to China and Japan on my account to hunt for humboo or other fibre was highly satisfactory to me, as evidenced by the fact that you found exactly what I required for use in connection with the manufacture of my lamps. I was also very much satisfied with the services you rendered me during your connection with the Edison Machine works, asypurchasing agent, and have every reason to believe that you have given perfect shifts faction to the Edison Company for Isolated Lighting during your connection with them, but as to this matter, I have no doubt that they will be willing to speak themselves.

Wishing you overy success, and again expressing my regret

that you are about

November 5th.

"Manager."

Western Union Telegraph Office, 852 Broadway, City.

Dear Sir;-

will you please have an American District Telegraph call rut in Mr Edison's epartments at the "Clarendon", luth, Street and 4th, Avenue, If the an you send will ask for Mas, Edison, she will give him instructions as to where the call is to be

Yours truly

S) PJ 3

Nevember 5th

A. Stuart, Esq. Secty.

Cincinnati, Chic

Dear Sir:-

I as very anxious to have in yer go to how orleans at the ourliest possible moment, and shall be glas to hear from you as to how scoreyou can spare him. It is a natter of very resit injectance to us that he should be despatched this week, and so therefore trust that you will emseaver to male your arrangements to dispense aith his services for the present accordingly.

very truly yours.

DS.

Charles Batchelor, Esq.

Paris, Franco,

My Dear Batchelor:-

I cabled you the other day as follows, *Peculiar about 130, thickness about par, regulation unsalable,
wakeful*, which according to my code with you you will understand
as follows: Edison Electric Light Company stock about 130,

Isolated stock about par, European stock unsalable, market generally year weak.

I have been waiting to see whether an advance would take

place in the price of our stocks but there does not seem to be much chunce of one at the present seems. The depressed state of the general stock market and the great chrinkage in values which has been going on new for wouths seems to have effected such outside things as Edison Electric light Stock yory much indeed when the capital was increased to \$1,080,000., some few wooks back, the stock went down about seventy five points, which was of course to be expected owing to the increased capitalization.

Isolated stock has greatly Tallen until it has get to quite a low point. I had expected that in stead of a decline we should have had a rise in prices, and I based my belief on the improved state of our business, the development of the central station business in small towns and the excellent footing obtained in the first district, but of course the troubles in Wall Street, where every-

thing has been going to the "dogs for senetime passi, besides one's calculations in relation to advance in prices, and under the earcumstances I do not know exactl, what to do for you, and consequently thought it best to cable you the state of the mariet.

I wish, on receipt of this, you would sare me in relation to the matter, inassauch as I leave here for london on the 11th. December, and would not have time to do anything much for you if you wait to write to me. Of course when in london I shall run over to Paris to see you. I am gains over primarily for the object of spending Christman in Jondon with my folis, as it is three years since I dear here, and I think my business is in a better shape now than it has been at any previous time and therefore Edison will suffer the least possible inconvenience from my absence.

Now for a few remarks about our business.

nown fown station. I do not know whother you have heard that the down town district went out one hight last week, the lights were out for some two hours. The cause of the failure was given out to be that the safety catches had all melted in consequence of their being large enough to carry only the Succer load, and the man who had charge of the safety catches was made a sespograce and discharged. Thether this was the exact cause of the trouble or not I do not know at present, but I will doubtless be able to tell you about it in jorson when I see you. I was away in Cincinnati at the time the trouble occurred, and therefore I am not at all posted an to the cause thereof. As I understand from Johnson

first one feeder safety catch gave out, which throw the load on the other eleven, then another gave out and so on until there was only one feeder connected, which of course "busted." Strague is now engaged with Edison down at the Central Station looking into the matter. There is no serious trouble, I do not think, and the district was running again all right two hours after. it may seem to you a little "gassing" for me to say so, yet truth compels me to record that the day after the broakquye we had more new audications for light than any day previously. now connected up in the First District over 10,000 lamps and our load in the evening is about 5,000, and the average lighting for the whole twenty four hoursboing about 1,100 to 1,200. come over in Pecember I shall bring with me for your private information figures as to how the station stands. If the showing is vory fine I will bring an official statement which you can make use of.

Out of Town Stations. We have now got running Sunbury, Ia. station, 360 lights, Shemolin, Ia. cickion, 1,600 lights, Erockton, Mass.

Hass. station, 1,600 lights, Therefore stating 3,200 lights.

Pall River, Mass. station, 1,600 lights will be running about the ond of peromber; Tiffin, Chic station, 1,000 lights, will be running about Christmas; Kowburgh, K.Y., 1,000 lights, will be running about the same time. These stations aggregate about a quarter of a million of dollars of contral station contract work. We have got a number of others coming along, and next Spring we shall undoubtedly do a very large business indoor in this kind of

work, so you see that our anticipations of large business, when you were here, are about coming true, and I think by next Summer we shall have a great deal more than we can comfortably handle.

Wachine Worls. Soldan was put in Doan's place at the Machine works. He has not got that onormous amount of power which bean had, and I thind it is a good thing that he should not have it The office of the Edison Machine Works is at 65 Fifth Avenue, that is in our office here, and its finances and everything in relation to its business is running very well. We order material from here, and I make arrangements from here with the people we buy from. The Superintendent of the Works builds machines at Goorek Street and takes charge of his men and there his functions one We had a thorough examination of the books made but there was nothing in them which we could call irregular. The only thing which we could not understand, and which we never as yet have been able to got at the bottom of, and which I do not believe we will ever get at the bottom of, is the enormous prices baid by Dean to his men on contract work. The men who got most of the "boodle out of these contracts were boon companions of Dean, and they swoar that he never got a cent from any contracts that he had with them for this work. It seems incredible that such should be the case, but I do not see any ressibility whatever of going bohind the statements of the men. I have had private detectives at work. I have threatened and promised and buildozed but noth will soom to got out of the men the facts about the case. although I cannot get at the bottom of the matter. I a

confident as ever that Hr. Dean had a large "divy" with his men on contracts. I found that Dean borrowed money right and left, and that everybody that surplied the Machine Worls with goods were subject to most abuminable blackmail and that Edison was fast getting a very bad name, as Dean gave the impression that Edison was fully aware of his (Doan's) private dealings with the peoule the Machine Works bought from. I also discovered that we Dean "" had stolen about \$200, worth of scrap, that is he had had the" seven taken from the works, sent to a man in Brooklyn and received himself the cash for same. Although it might have been possible to indict Mr. Doan for constitucy for receiving commissions, we were advised that our case would be a very flimsy one, not that we wanted to bring the matter into court, but we wanted to have something that we could hold over bear if he got obstinate, but of course when I discovered the stealing of scrap, although it was a comparatively small amount it was quite sufficient for my On last year's orders, which you may remember was a very large one, Dean had due him about \$9,000., the amount of seven per cent profit of the job which Edison promised him. my policy was to save the Edison Machine Works any such sum, and Mr. Dean's stealing scrap gave me the opportunity. We have now in the safe a release, from Charles 1. Dean to T. A. Edison and Charles batcholor, trading as the Edison Machine Works, which sots the Lachine Works free from any claim that Dean say have had, so is a clear saving of \$5,000, after getting rid of him.

had to deal with Recap. I do not think that he was guilty of any criminal knowledge of what Dean was doing. I do think. however, that he shut his eyes to cortain irregularities which I noticed, and wking first Jed me to make my first inquiries which resulted in my reporting the matter to Edison. Rocap's defence is that Edison stood up for Dean against everybody, and that he (Rocap) reported several matters to Edison at one time which Edison refused to take any notice of. Anyway Rocap had to Ro. of co-operating with me for the last two and a half years he has persistently and consistently put every obstacle in my way to prevent my getting information at Goerck Street, notwithstanding the fact that when he was ongased, it was perfectly understood that he was to work under my direction, and I think if I had had a little more co-operation at the backine Works, I might have not to the bottom of the trouble earlier. Mr. Rocap also had an unsettled claim against the Machine Worls for \$1,400, in connection with NAMER the same deal as Boan, and Rocap started to threaten suit against us for the amount. I had advised Edison and he had agreed to pay Rocap, but as soon as the threat to start suit was made, I got Edison to allow me to take the matter in hand again, and I am now engaged in an effort to delay payment to Rocup and save a possible thousand deliges in settlement. If I succeed it will be due to a smart young lawyer who is handling the business.

Thether Soldan will turn out a good Sujerintendent or not in very difficult to judge at present. So much of his work this Fall has been of an experimental character, and one can hardly judge of a man's capabilities to hundle york chemply and quickly in connection with the Bachine Works at the present mement. Anyway he is honest, attends to his business all the time, and he keeps his shee in apparently very good order and everything scenarious.

Jamp Company. Mc. Joughlin has sold his five rer cent interest in the lamp Company to Unton for 312,000 .. This would place the lamp Factory property at a value of about \$200,000. on HI TON'S valuation. Inasmuch as fit ton is running the Factory he ought to be better acquainted with this than anyone else, and if he values the projecty at \$250,000. For the purpose of buying a furthu interest in it. I should imagine that its real value must be nearer 3300,000. At that present time there is about \$190,000, invested in it, \$160,000. carital and \$30,000. borrowed from Upton. Then you remember that for practically eighteen months or two years it was nothing but outgo all the time and that there was an enormous amount sunk in experimental work, which must be looked uron as so much lost, you cannot but come to the conclusion that the lamp Pactory's business is in a very flourishing state. We are goingto put the lamp Pactory into a close corporation with a capital of one hundred shares of \$100, each. This will be done before I go "to Europe. Before this is done we shall put experts upon the "" books and make a thorough examination and balance prior to the business being turned over to a corporation, and I shall hope to bring with me for your information a statement of the Jamp Factory's business, on which you can rely far better than the above

statement

Bergmann & Co. Bergmann & Cols balance for the year ending Soptember is now out and they are \$55,000, ahead on the year's business. Of course this is not in cash but in troperty. as practically all profit of the shops ought to be for sometime to come, owing to lack of working capital. Of this \$55,000, Edison is entitled to one third, which makes \$10,000,, and you are entitlod to ton por cont out of this one third, shich makes \$1,800. You have invested in Bergmann * Go's semething over \$4,000; and if they had ample working capital and a division of the profits had been made at the end of the year, instead of it having been loft in the business. You would on your investment of a little over 34,000, have made 21,800, cash. As it is of course you simply make on paper, although the property in which the profits have been invested is valuable. I do not know whether Perguann had done so when you were here, but in addition to the original building, he has bought another lot 25 x 100, which makes the property 125 x 100; and he has built on this small lot a brass foundry and eargenter shop. Pergmann's co. do all the brass wo for the Machine Worls and Iruesi, as well as for thomselves.

I do not know that I can write you any more just now, in fact if it were not Sunday I would not be able to spend the time in dictabling this letter. If you want me to do anything for you or bring anything over, please write me immediately you get this?

As I suil on the "Alaska" December 11th., I shall be in london about December 21st. or 22nd., and shall hope to be in Paris about the New Year. I have got to leave Jiverpool semetime about January 5th, or 10th., so as to be home before the commonecement of February.

Yours very truly

Written by Samuel Insull Ko.

November 6th

Major Frank Re.logghlin,

Park House,

Newark, N. J.

My Doar Hajor:-

With relation to your request that I should make an astimate for the erection of an electric light plant to light the big lend funnel, I beg to state that owing to a sudden rush of husiness in connectior with our central station down town, my time has been so fully occupied since I received the data from you that I have been quite unable to take the matter up. I fear that I shall have to give the greater portion of my time to our central station work for semestime to come yet, and I must therefore ask you to offer my apologies to Dr. Pierce for the delay which will of necessity occur in getting the estimates asked for. The matter is one which I wish to attend to personally, as it is of a special character, otherwise I would turn it over to my engineers for their attention.

Very truly yours,

J.W.

November 7th.

A. E. Boack, Esq.

261 Broadway, City.

Friend Beach:-

Will you please let me know when you think you will be able to publish the article on "Storage Hatteries" which I sent you some time back.

very truly yours,

November 7th.

Goorge P. Pliss, Ecq. Supt.

Chicago, Ills.

Boar Sir:-

We have your letter of the 5th, inst. relative to Mondute, and in rejly would say that we consider your idea of allowing the people there to "cool off" a good one.

We have not yet received definite information as to Appleton, although we have been daily expecting it. We also would be interested to know what steps are being taken in regard to Racino.

Very truly yours,

Jan

Fovember 7th

Er. P. Comant, Fag.

Door Sir:-

Performing to your wish to be removed an Shamekin, I fully appendized with you and tenst that your took?

Will hold out until the troubles at Shamekin are fixed. The ediated everywhing is running misely, I will see that you are removed from the ladd of tough steaks, and if you will only come on here some evening at d o'clock, I will take you up to Delmonico's and region you with such a real as you have not seen in ages.

. Yery truly yours,

83

Noy. 7th

ic. 7. P. Commis.

Dear Sirt-

I have your favor ofthe 4th. inst.

and in connequence of the resolpt thereof have decided to send /prington a Sing' man on to Shamakin immediately. I enclose you letter from he. Donty which Y shall be glad if you will return to me with such explanation of the troubles as your provious convenience may not have contained.

Very truly yours.

Tais

Hovember 7th

Joseph Williams, Esq.

San Joso, Cal

Door Sirt-

Roplying to your letter of the soth, inst., in which you ask if a tolephond could be operated onna railway train, I bog to say that it is rossible, ospecially if the instrument used is a string telephone.

Yory truly yours,

1883-11-07

Boy. 7th

F. R. Upton, Fsq.

Fast Mewark, M. J.

Dear Sir:-

We have complaints from the Sunbury company about the arsing of their lamps.

Very truly yours,

....

November 7th.

A. Stwart, Esq. Secty.

Done Sire-

Cincinnati, Ohio.

That in receipt of your tolegrees of the ith instasking sky definite sork has not been began as presided, such
delays me rainous. You must really loave to us to decide when
I shall send a can to a certain to m to start the sork locally.
Lanctiately a contract is signed that search the sork code need
although it may not be visible in the toom shows the plant is to
be installed. We have quite an exacut of rechinery, who we to
get out before it is possible to do seek work locally. This has
in an proceeding and T do not think you have any earns for complaint
as to delay at Tiffin. As matter of fact our Supt., Kr. Pich,
left Fall Fiver Bonday night for Tiffin, and signs of sork will
be visible there in a few days.

Yory truly yours.

Jar

November 7th.

Jilliam J. Surd, Psq.

Brown's Lotel

33 Pulton street,

Brooklyn, N. Y.

Door Sir:

There your lotter of Movember Tib. If you will apply to leases deriven f do., 312 Aye. 3., they will let you test your motor there if you show then this lotter. They have denotant current and will I feel sure give you the facilities you desire.

Jory truly rours.

Sovember 7th.

.5

Samuel Insull, Esq.

leston, Hass

Dear Sir:-

In relation to lawrence, I beg to say that in accordamen with our Order No.1, as per the item on the attached statement marked "C", the Illuminating company is indebted to us to the extent of 35.734. In accordance with item "b", which I believe was accepted by an lord, it being the same that you made to him from Brockton, they owe us \$1,255,20 Item "B" is for the extension of the mains on the North side of Essex Street, and is the amount in connection with which we had the correspondence with in lord, and he did not appear desirous of accepting our figures for this work, stating that mes contract with Mr. Edison covered the full system to be ordered as they wished. Item "P" is for laying mains to the City Hall, which was not included in our contract, and amounts to \$108.14 The amount of the bill which I attach is for house services, tools Ac., as perfectails shown, and amounts to \$1,242.05, and these amounts aggregate \$12,808.83. The full amount of our contract with the Edison Electric Illuminating Company of Lawrence for street installution is \$10,846. You will notice that in Order Ho. I the amount for street installation is

•

St, 7784, which is alon "c" on the attached statement, and this deducted from the rull amount allowed in the estimate for stroot installation loaves a mercin of 31,112, which was to be devoted to considering the system in accordance with our exhibits sont with the estimate, but inacquel as they have ordered inversely thins we approad in the first place to do and they have exceeded that amount considerably. I have deducted from the statement Gloo. For a meter balance which we agreed to supply in Order No.1, and which was charged into the lawrence Illuminating account erronously.

You can make any other deductions you see fit, but as I do not know the amount you would fish to deduct for office furniture, inammuch as we specified mone in our estimate and I consider it better to leave this for you. You will see that the amount which the lawrence Company owes us is \$1,002.63 384,000 and above our contract with those.

Very truly yours.

000

Semuel Insull. Esq.

Boston. bass.

by Door Insull:-

you two bills. On is itemized and shows the actual cost to us for the material supplied by kruesi for house services, &c. and the other is the regulation bill with twelve for cent added. which latter I presume you will use for collection. I regret very much to say that I have hunted everywhere to obtain a copy of the Exhibit which accompanied the estimate we sent to the lawrence Company amounting to \$32,572, but have uttorly failed to obtain one, nor can I find anywhere the letter which I am still under the impression you wrote designating the course of the mains. I am very sorry to have to write you this, but it is simply imressible for me to discover where this data is, and you will now have to obtain the Exhibit from Er lord. The course of the mains as specified in our Order No.] is in accordance with Item "C" on the statement which I have attached. I cannot even find bracei's bid for the street installation in accordance with the item (you will understand when I say estimate I mean the full Order which includes Order No.1).

In regard to our lawrence affairs I am sending

2

In relation to Brockton accounts, I have also enclosed two bills, one itemazed for four our information and the other with the twelve per cont added.

I trust that you will recognize the last that this data
is as complete as I can sale it, and at the measur of writing
this I w. in the mass humor as you will be at the measur of
requiant it.

I enclose the learence contract which you may possibly want in settling up affairs there.

Yours very truly,

arey

November 7t

camper /th.

E. H. Bord, Esq. Treas.

Edison Electric Illuminating Co.

lawrence, tass.

Bear Sir:-

We beg to acknowledge with many thanks receipt of your favor of yesterday's date enclosing check for \$10,000, on account of our contract for the installation of central station plant at lawrence.

Yours very truly

Dag

Nov. 7th.

Fr. M. dard Leonard.

Brockton, Bass.

Dear Sir:-

I have yours of the the and must request you to stay at Brockton for the present and not to come to New York before soing to between until you have advices either from this office or from ir. Theuli who will be East during the next few days. You are mistaken if you think we want you to go to Goreak street to experiment. We desire you o stay at such station as you are sent to until r request you to go classings.

Yery truly yours,

Jak J

Cov. 7th.

kr. Frank S. Barr,

Sumbury, Pa.

Dear Sir: -

I have four fayor of the Ord. of Movember. relation to the charge for 33 candle lasss. I would beg to say "" that the average lighting time for the 305 days in the year is at G o'clock in the evening. Hotels want the light until 2 A. N. This makes 0 hours at 1 4 cents per ten candles per hour. The showing would be 3 4 cents per hour or 30 cents for the 3 hours. This would give you about 3110 for the 365 days of the year. If you charge \$50 per year it would be at 'he rate of about 1 16 por thousand feet of coul gas. You might make a contract at this rate only by the month with the privilinge of stopping when you " get loaded up and have an opportunity of taking botter consumers." I agree with you that the extension of your mains should take place before the cold seather comes. If you will please have your moter man mark upon the charts sent herewith exactly where the present mains run and there the feeders run as and also mark on the chart where you propose running your new mains, I will have calculations made and let you know exactly what size of copper wire should be run for the extended circuit. I cannot understand why your lamps are so. Very truly yours.

Tar o

November 5th.

A. Stuurt, Esq. Secty.

Cincinnati, Chio

Dear Sir:-

Replying to your latter of the Oth, inst. in reference to are light as the say that we have an are light as that can be worked on our circuit, but not name, so economically or natisfactorily as incandescent lights of large power. Our large lower less are cetting to be excellent in life and economy. We have a new wire and all devices requisite for using it and we hole in a few days to be in receipt of authority from the loard of fire Underwriters to use it. If we fail to obtain this, which is hardly likely, we should so wiring in the old manner.

In relation to Cynthiana and Maysvillo estimates, we are pushing them through with all possible speed, and will make them as low as we can,

Our Superintendent, in Rich, is at the present moment in Fiffin, and will see that everything is done to advance work there.

Very truly yours,

9

Charles S. F. Small, Esq., Frost.

a. Y. Electrical Society,

Room 40, W. U. Building, City.

Door Sir:-

Replying to your letter of the 5th, inst., I ber to say that it would give me great pleasure to comply with your request and deliver a lecture for the benefit of the bembersger your focusity were I possessed of the powers of cratery requisity for such an occasion. The fact of the matter is I never delivered a lecture in my life. You of course understand that there is a very great difference between talking and inventing, and though I have made rather a success of the latter the former is an accomplishment which I do not possess, and I must therefore ask you to very kindly accept my regrets together with my best wishes for the wellfaceout your Society.

Yory truly yours,

Jay

November 8th.

Coorge W. Bliss, Esq. Ceneral Supt

Chienco, Ills

Dear Sir:-

erection of an Edison Floatric light Control Station Flant at Reenah, Wis. of 506 lights capacity and amounting to 37,085. together with man "A" referred to in the estimate, showing the course of our proposed street installation, which takes in 606 lights. The estimate is based upon the assumption that the local Company provide the building, power and all necessary shafting, fulloys, hangers, bolting Se, to and including jack shart, requisite for the proper and efficient operation of their station. In regard to our bid for street installation, this is based upon the ascumption that all permits and concessions necessary to be obtained from city authorities or private parties shall be procured by the local Company, to enable us to erect poles and run our wires in accordance with the red and white lines on Exhibit Should they fail to obtain any of these and thereby cause us any additional excess. it is understood and acreed that they shall reimburse us to the extent of the excess. You will observe that the cost for last of this installation, as far as we are

Second the we have to onelose our estimate its. 30 for the

concerned, ic 313,77 As it only remains for the local company to crost their building, which must only be a small one, the installation is joing to be a particularly chem, one, and we think our last of it will be found satisfactory in all response.

If you come to any definite understanding with these poulse which would necessitate forces of agreement, we shall be glad to send them.

Yory truly yours,

2ac

Spencer Porden, Esq.

Boston, Mass.

bear Sir:-

We enclose herewith our estimate No. 34 for the erection of an Edison Electric light contral Station Plant at Eatich, Mass. of 1,000 lasts especity and ascenting to 223,233,36, and under separate cover we send you our Exhibit "A", showing the course of our proposed strent installation, together with plan of proposed contral station. You will notice that the cost per last of this estimate is 223,23, which, for an underground system, we consider yory reasonable. The Newburgh installation, which we have just closed, came to about the name Tiguro.

We also onelose you our estimate No. No for the erection of an Edison Electric light Control Station Flant at Normich, Conn. of 1,000 lights capacity, and under separate cover we send you our Exhibit "A" referred to in the estimate, showing the course of our street installation, together with plan of central station, the details of which are the same as the Eatlek station. This estimate Emounts to \$23,370, or \$23,37 per lamp, which is about 43 course per lamp in excess of the Natick estimate. This excess is accounted for by the fact that our proposed street installation will accommend to \$23,370 lights, whereas the street installation will accommend to \$23,370 lights, whereas the street installa-

tion in Satisf takes in but 1,000. We will send you whomever necessary forms of agreement for electing either or both of these contracts, but if anything is to be done in the matter this wall, impediate steps must be taken, as in a very short time so will have frost to contend with which would of course jut an end to everything in connection with displicitly streets for the jurpose of laying our mains. If the watich or worsich people wish to do that becaused we consider these estimates give results which must be perfectly satisfactory. They will of course understand that by delaying the matter until Spring they will loss a great deal of money by not being able to take advantage of that season of the year when the average burning of light is the longest.

We shall be plad to hear from you as early as possible what steps are beams taken to effect a actilement, and in the mountains we hop to remain.

Vory truly yours

Fac

M. C. Pellnar, Esq. Secretary

Edison Electric Illuminating Co.

howburgh,

We have the pleasure to enclose you herewith revised plan of the Newburgh central station showing all the details necessary for your contractor to have. We trust that the details of it will be accurately carried out, as any deviation would proatly interfere with our arrangements.

Our Superintendent will visit Newburgh shortly to soo how you are gotting along;

Vory truly yours.

Hovembor Eth

V. Burrows, Enq.

Room 1d,

46 Broadway, City.

Dear Sirt-

Will you lindly lot us know the xxxxx thard class rates to Peenah, Wis. and Dambury, Conn. We require these rates for entimating purposes and it will be necessary for you to quote from the (ariff at the present time in force. When we can to easy material we will supply you with the forms you suggested properly filled out, in order that you may obtain special quotations for us on our material.

Very truly yours.

744

Movember 6th.

Mossrs. Harris & Robinson,

. Hartford, Gonn.

Dear Sirs:-

We have the pleasure to enclose you herewith our estimate No.31 for the erection of an Eduson Electric light Central Station Plant at Danbury, Conn. of 1,000 lights capacity and amount ing to \$25,414.56 On account of having to prepare this estimate under great pressure, is order to keep our promise to you to mail it to-might, it was impossible for us to send a man to Danbury for the purpose of inspecting the streets, preparatory to making a bid for the street installation. On this account the amount which we have estimated for same is subject to revision. br bruesi, of the Electric Tube Company, will go to Danbury this wool, if possible, and certainly not later than Monday, and obtain such data as he may require to enable him to submit a fresh estimate for the street installation, and we will immediately advise you of the result. You will notice that as the figures stand now the cost per lamp is \$25.51, but this is accounted for by the lighting of the district boing very much scattered and necessitating long mains and fooders. In Nowburgh, M.Y., where we have just closed a contract and commenced work, the cost per lamp was about

\$23., but the district was much more compact than banbury and the feeders much shorter. You will see that the comparison between the two estimates would be very favorable, and the seemingly high every for lemp of the banbury proposed installation is very uniformatically accounted for by the larger amount of copper which it is necessary to one and the greater amount of excavation required to lay the same, also the fact that these mains are laid to accompdate 1,271 lights.

Under separate cover we send you map "A" referred to in the estimate, showing the course of our proposed street installation, and if you come to any definite arrangement with the Danbury Company, we will forward you forms of agreement. Under same cover we send you plan of our proposed central station, showing the general arrangement of its interior.

Trusting that these will most your requirements, we are,

Jan

Movember With. 3

H. Ward Toonard, Esq.

caro Edison Klectric Illuminating Go. Brockton, Bass.

Doar Sir:-

Replying to your letter of the 7th, inst., to beg to say that we consider it would be advisable for you to purchase the lhotometer you mention.

Yours truly

Jan

Ball Engine Co.

Brio, Penna.

Dear Sirs:-

Replying to your lot or of the Skh. inst., we beg to say that we understand that there is some question about patents existing between your Generaly and the Araington & Sims Company. We are not bound by this latter Company in any way, and we use their enrines because they have given better results in our business than any other engine we have ever tried. In the matter of countershafting, we never, under any circumstances, make use of it, as we consider it to be an impediment to the proper and satisfactory working of our stations.

Have you any opinion of experts that your engine is patent free, if so would you be kind enough to let me see it?

Yory truly yours,

Jak

November 5th.

a

P. B. Shaw, Esq.

Williamsport, Penna.

Doar Sir:-

We have your letter of the 3th, inst, in reference to the breadage of lamps at Sunbury, and in reply beg to say that we have rent an expert from the lamp factory who will ascertain the cause of the trouble.

We have to-day written an ke. Cormick very fully on the subject, and trust in a short time to cradicate the difficulty.

Very truly yours,

Jan

Mt. Carmel

vember Eth.

F. B. Shaw, Esq.

Williamsport, Fenna

Dear Sir:-

We best to enclose herewith our estimate to 73 for the erection of an Edison Electric light Control Station Plant at lit. Carmel, Fenna, of 500 lights capacity, and emounting to \$14,500. and under same cover we send you man "A" referred to in the estimate, together with plan of proposed centr : station. This installation, as you will see, comes to \$20.12 per lang, which considering that the street installation covers nearly 200 more lights than the nominal capacity of bthe plant and that the instal-"lation is a very small one (in which cases the dest per lumn always runs of high) is a very fair estimate. The central station toomight have been located at a better point, but as you understand the Vt. Carmel people purchased the let for this purpose without consulting us in the matter. The Sunbury installation. we might mention, came to about the seme figure, and we feel sure that when you explain to the At. Carmel continuon about the cost por lump running up vory high in such south sized understand the ease and fall in with our ideas that the estimate is a good one. There is one thing that we wish to impress upon you and upon the gentlemen interested at "t. Carpel as forcibly as is

possible for us to do.it, and that is, that there sust not be a days delay in giving us the order for this installation, if shey desire it to be jut in this Fall. In a very short time we will have front to contend with which would jut an end to all work in connection with excevating for our pole line and foundations. The it carmed Company will or course understand that by delaying this matter until spring they will lose a great deal of money by not being in a position to take advantage of that season of the your when the average burning of take light is the longest.

We will send you to-nerrow forms of agreement filled out and executed as far as we are concerned, and if we get this order at once, we will command work right away.

Trusting you will recognize the necessity of a very

ory truly yours

Enclosuro

November 6th.

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition, Iouisville, 17.

Dear Sir:-

We enclose herewith our check to 245 for 875., and wish you would be good enough to return to flow fork at once. Please ware us when you leave louisville, which we trust will be on forday the 18th, inst.

Very truly yours,

Enclosure,



November 9th.

Frank H. Mc. Cormick. Esq. Frost.

Edison Electric Illg. Co. of Sunbury,

Williamsport, Penna.

We have your letter of the 5th, inst, in reference to

Dear Sir:-

the breakage of lamps at Sunbury, and in reply box to say that we have sent an expert from the Lamp Pactory to Sunbury, who will very soon ascortain the cause. We strongly suspect that your local manbhas cut some customers in by running the service from the foedor instead of the main. What you should have done was to have ascertained at what particulariplace the breakage occurred, after which the cause of such breakage could be very readily obtained. The same lamme as you are using are in service at Shamokin, Brocktonnand Rosello and give 800 hours. The Lamp Factory's guarantee Is that if run at ten candle power, they will lest 600 hours, and wo know from experience, which is the best evidence that we could possibly have, thatbthese lamps are capable of bearing out the guarantee. . We regret that Wr. Harr should have been so inconsed. on account of the letter we wrote you, as Mr. Conant simply quoted the statements made by the engineer at Sunbury. The Lamp Pactory export will, however, find out the cause of the excessive breakage

Frank H. Mc. Cormick, Esq. Frest.

of lamps in Sunbury and adjust the matter so that there will be no further trouble.

Very truly yours,

. Hovesbor 6th

J. P. Bunn, Esq. Vice President.

Tiffin Edison Electric III. Go.

Tiffin, Ohio.

Dear Sir;-

We have your lotter of the Grd, inst. asking us to mame a date when the Miffin installation will be ready to supply light. In reply to that duery we would say that the work on the station has already been emmenced there and that its excellation will not tide more than twenty or twenty five days. The ware for the pole lines will be in Miffin in about ten days, and this work can proceed in amount with the work on the station, and should be concluded about the same time. We do not like to state positively that we will have the plant running by a certain time, but we want you to feel assured that xxxxxxxxxx we will do everything in our lower to most your wishes and have it running about the luth.

In relation to lighting the public garden you speak of, as far as we can tell from the incomplete information given in your letter, this appears to be in block 40. We are to submit a proposal to so Stuart for lighting this block, together with some other blocks, and when that has been received it will give you the

information you desire on that point. We trust you will understand that it is our desire to meet your wishes in this case and that the reason that we do not promise absolutely to start on the 16th, becomber is that there are so many points to be taken into consideration in making a promise of that kind that we consider it better for ourselves and for you to place the matter in the light we have, notwithstanding the fact that we feel reasonably sure of being able to meet your wishes.

Very truly yours

V. S. Hastings, Esq.

15 West 50th, Street, City.

My Dear Mr. Hastings:-

I have been receiving since last Wednesday very prossing telegrams from Bessrs. Harris & Robinson asking me to attend a meeting at Southington to-morrow (Monday), and I have repeatedly telegraphed them that it is simply impossible for me to do so, and yet they persist in wiring me to attend the meeting. Now after I got thore I do not see what good I can do, inasmuch as the license contract with the Light Company has not been closed yet. Harris & Robinson say that the most important stockholder leaves Southington for the South on Tuesday morning. and I think it is more a matter of the light Company's than the Construction Department's for the present, as I am positive, from my experience elsewhere, that after I go there there will be a lo of usoloss talk, and I will have to go later on to get my contract I have besides very important business to-morrow, having been out of the office the whole of last week, and I write to ask if you can go to Southington on the eight o'clock train to-morrow morning. If so, I would like to see you before you go, and I will come up to your house or I will meet you here anytime

this afternoon, after which hour I do not know whore I shall be.

> Will you please let me hear from you by bearer. Yours very truly,

November 12th.

Paul D. Dyer, Esq.

Warner House,

Chillicotho, Chio.

Doar Sir:-

I have your various Totters from Canton. I am very anxious to have you go to New Orleans as soon as possible, and I want you to havry through on Fr. Stuart's work. You must finish with him by Saturday next at the latest.

Very truly yours,

19

3

J. C. Oliver, Esq.

Toronto, Canada,

Door Sir;-

Noterving to your favor of the oth. inst., I beg to inform you that my experiments are in the main confined to incandement electric large, and the substance you mention for carbon joints for are large will therefore to of no use to me.

Very truly yours,

2aa

A. Stuart, Esq. Socty.

Gincinnati, Ohio

Doar Sir:-

Your letter of the 4th, inst. cman duly to hand.

We are delighted that you should recognize the fact that it is quite true that we cannot supply estimates unless we have the data whereon to work. Wiffin work was started issociately the writer got back to now fork. We you not know that there are several things to be done in connection with material before we can have men on the ground actually at work in the town itself.

We are justing saysville and cynthiana estimates as quickly as justile, but I must remain you that we have a few towns outside of your terratory that we have to estimate on.

That despatch about it. Edison going to louisville was received during the writers absence from town. That lets the liviate Secretary out, but it was answered just as moon as Mr. Edison could be get axis at by the Frivate Secretary's assistant.

If you did not not the reply you must blame the Western Union Telegraph Company and not us. I doubt very much whether mr. Edison will go to louisville at all. It is probable, however, that kajor Eaten will go South Sematine within the next wook or so,

Why don't you give us some more contracts, which is after all the main encouragement to us to keep plodding away at estimates One little contract of \$16,000,, which required a week of the wtiters time to get executed, and a trip of something like 650 miles, is hardly sufficient to justify the heavy investment we are making in canyassing, estimating and such like on your behalf. Where are those other two contracts that you said we should have within a few days of my leaving Cincinnati?

Very truly yours,

Hovember 13th

A. Stuart, Eaq. Secty.

Cincinnati, Ohio.

Door Sir:-

important that in Byer should leave your territory by Saturday next. We really think that you have one off quavasses to get along with. We have kept him in your district so long, to the prejudice of our business also where, that we feel compelled to insist up on his leaving you by Saturday next at the latest.

Noting that this will not cause you may great inconven-

Very truly yours,

Tar I Straight line Engine Co.

Goddes & Fayette Sts.,

Syracuse, N.Y.

Doar Sirs:-

We be: to acknowledge with thanks receipt of your favor of the loth, ingt. in relation to royalties on your engines, and will await the communication you propose sending us.

Yours truly,

Jac

Kovembor 13:

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Doar Sir:-

We have your favor of the 5th, inst., asking us to send you an estimate for Piqua, with the central station located on the Parrington lot. The map which you mention in your letter came to hand a few minutes and, and it has therefore been impossible for us to comply with your request to wire the figures "on Mondays. Inasmuch as you want us to do very close figuring on this estimate, we wish you would the attached form filled in by some reliable person as accurately as possible, as to prices in We shall be glad to have this regurned at the carliest Piqua. possible moment, as we can give you no figures whatever until it is received by us. You also omitted to send us the size of the lost mentioned in the foregoing part of this letter. could have guessed at this size, but that is not always a safe thing to do. lloase sond us full particulars about this new lot in accordance with the form attached.

Yours, truly,

W. J. Jonks, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, Wass.

Doar Sir:-

Replying to your letter of the lath, inst, in regard to books and stationery covered by the amount of \$30. In the Brockton estimate, we have to say that it was our intention to supply a full set of books, together with special forms which we considered necessary for the running of your business. Some of these books are now being prepared by the frinter, but it is our intention to make an allowance on this item and charge you only for what we supply.

Yours truly,

P.S.

Frank S. Farr, Esq. Troas.

Edison Electric Illuminating Co.

Sunbury, Fenna.

Bear Sirt-

we beg to acknowledge recept of your letter of the th. inst., and in repl; would say that you can order clamts from Februs, Bergmann & Co., 2008 Weenuc B, City.

You ask for vulcanized fibre cleats and breds to see with ther. The cable can be obtained through us or by millioned threat to the Ansonia Brass & Copper Co., 10 Cliff Street, City.

In regard to the breakage of lamps, it is very strange that your metersan has not sense chough to see that his indicator is too high on one side and too low on the other. It requires hat a small assumt of judgement to make a comparison between the brightness of the lamps on the two sides. He should regulate those sides evenly and reset his indicator. Your breakage of lamps should be about fourteen a week.

Yours truly,

Col. G. E. Gourand.

74 Hadison Avenue,

My Done Colonel :-

Something Street

I have gobe thoroughly into the matter of the division of the Edicon-Cower-Bell Telephone shares coming to the Edison interests and I do not see how I can do better than to offer a division of them on a basis of four-tenths to go to you for the countries you put in and six-tenths to go to the Edison Tolophone Company of Europe here; you taking your proportion of the six-tenths, which you are entitled to under your arrammement with the New York Edison Company.

If you will write me a note accepting the division as above stated. I will have the papers fixed up and mailed to you by Thursday's stomer without fail. I think that they should be put in a little more formal shape than that indicated in the formetif letter already agreed upon between you and myself. . I am very sorry that the matter should have been put off so long, but it was quitoHunamgidable.

Hoping that you will have a pleasant trip home, believe me, very truly yours.

November 18th.

٠,

John Decker, Esq.

lewisburg, Union Co., Penna, Doar Sir:-

In reply to the query contained in your latter of the th. inst. as to whether it would be possible to collect atmosphoric electriity on conducting wires, in order to obtain light, I her to say that the process is possible but highly impracticable.

Yours truly,

Jan J

G. W. Wilber, Esq.

Corner 4th. & Rodman Sts.

Fall River, Mass.

Door Sir:-

Please report at the carliest possible moment to this office and be prepared to take a journey South. We want you just as soon as you can got hore, and we shall be glad if you will wire us on receipt of this when we may expect to see you.

Rovember 18th.

Goorgo H. Bliss, Esq. Coneral Supt.

Chicago, Ills.

Dear Sir:-

We have your latter of the oth, inst, in reference to Appleton and Racine. In relation to the former, we trust that the information necessary for us to have, in order that we may prepare un estimate, will come to hand soon. We are glad to see you state that the Jacine estimate was matisfactory.

. Moreowith we beg to enclose you two copies of the form of agreement which is entered into by the local company with this herartment. We presume you have copies of the licenses contract which the farent Company uses in extending privileges to the local company. If you have not these latter copies Mr. Mastings will supply them.

Yours truly,

Enclosuro.

Personal.

November 14th.

Goorga Worthington, Esq.

33 Park Row, City.

Friend Worthington:-

You are barking up the group troes: Why did you not come and ask or Edison if he was the originator of the "Times" article before charging him in your paper with the "crime". You know him well shough and can easily get at him, and therefore it would cortainly have been a little more courteous if you had applied to him for information before allowing the article in your issue of the Eth. to be put in print. As you state "fair play is a jewel" and I might add that it is hardly fair play to judge a man guilty in advance. As a matter of fact Mr. Edison had nothing whatever to do with the article in question.

I write this for your personal information and not for publication.

Yours very truly,

89

covember 14th.

W. I. Carrison, Esq.

137 Fodoral Street,

Eoston, Rass.

liv Dear Sir:-

relation to the wiring. We are, at this writing, doing our best to get the cable accepted by the Soard of Fire Underwriters.
They have appointed a Committee to look into the matter, and Hager Eaton and En Edison are point to draw of a statement action; forth the advantages to us of using the cable, and immediately that is not out I understand that the Committee above referred to are to come here and tests are to be made with the cable to prove its adaptability to the purposes for which it is designed, and also to prove its safety when used instead of the ordinary two wires.

We all recognize that the question of choupening the wiring is about the next important matter attraction, und you may rely upon every possible before being made to give you something acceptable to the fire insurance people, and chapter than the material new used for house wiring purposes.

On my return to new York I spoke to be Edison with

51

vember 14th. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City

Limitofic Sir:-

I have the pleasure to enclose you herewith a small order for copper wire for use at it. Carmel, Penna. I also enclose you copy of our contract with the Edison Electric Illuminating Company of Mt. Carmel. The parties in interest are good substantial people, and in fact every way satisfactory to us. We have undertaken to start cur plant by the 15th, December, and you will therefore please hurry this wire as much as possible. It should be shipped from your works at the latest ten days from onto.

It is impossible for me to not down town to-day, and if you can have the necessary papers propered and returned by bearer, I will execute them and send them right back to you. I shall be glied if you can let me know whether you can ship the copper in the time above specified.

Yours very truly

November 14th.

W. H. Dwelloy, Jr. Esq. Treas.

Edison Electric Tlluminating Co.

Fall Rivor, Wass.

Doar Sir:-

Neferring to your favor of the 12th, inst., I am of the impression that you will have to use the old method or wiring antil we get formicaion from the Buard of Fire Underwriters to use the new cable. They have the matter under consideration, but it is protty difficult to force them to deal with it quickly.

I should therefore think it advisable not to mention to your probable customers that we have a cheeper method of wiring under way.

Vory truly yours,

Jan

November 14th.

Charles Batchblor, Esq.

Paris, France,

My Doar Eatcholor:-

Your letter of the 30th, inst. came to hand this morning.

I do not see why we should keep up our prices on lamps if it is noting to ruin our lamp sales in Europe, and I shall therefore be very careful what i say in reply to Forges letter, which you say is to come here. Anyway I should by no means be disposed to accode to his request, considering that he is bidding for the English lamp trade as avainst us.

we have not up to this writing made any single core machines.

We propose to do so at some future time, but how it will interfere with the manufacture of the derman dynames I dennet see:

Our policy is, when we design and build a machine, to be very
careful to soll all machines of a given design before we bring out
anything better. By this mounts we save ourselves being "stuck"

with a lot of obsolete machines. We have sold in this country all
the old forms of dynamos and our new types are now coming out,

or increments are not been knowned

we are none the worse off financially for having brought out Such now designs. It would be rediculous, as you well know, to suppose that we could build a machine and say that there will nover be any alteration. Your Ivry friends do not soom to understand this matter, no they think that simply because we are going to turn the 100 light machine into a single magnet machine, that we process throwing and all those that, we have built with the double magnet? At this writing we have about fifteen double magnet machines of the 100 light type at Goerck Street, and they will al be sold before we make any single magnet machines. follow this policy out right through our business. The first "I" machines that were made would run only 350 lights and wore of the long magnet type. We built about twenty of them. Then we not out the improved "No. on which we can run 450 lights with case. The whole of the former were sold with the exception of two. and those two we have just managed to dispose of without any sacrifice whatever, and at the same price at which we sold the improved "Il" to a very obliging customer who wants 700 lights and nothing more. although he can get 800 for the same figure.

t am delighted to hear that you propped urcturning, and the secondry you do so the better. The prospects are that we shall

Yours very truly, so an

Sunbury

Royembor 14th.

.,

W. D. Rich, Esq.

caro Edison Electric Illuminating Co.

Fall River, Bass.

Dear Sir:-

We closed this norming a contract for the installition of a plant which is practically the duplicate of Sunbury, at Et.Carmol. We have get to start the plant about the 17th, of December, which you will notice gives us little more than a month to do the work in. It is highly important that you should made a trip to Et.Carmol at the carliest possible moment. If you will please advise me by wire to-morrow when you can go there, I will moot you here at the office at any time when you may indicate when you go the broad have a talk with you before you go to bt.Carmol, and it is also necessary that you should not the oarliest date compatible with your arrangements for the pushing of the work at Fall Styer.

I onclose you betwith check for \$500, as requested in your note left here yesterday,

Yorr truly yours,

41

Movember 14th.

Charles Esteboder, Ess

My Doar Matchelor:-

1 got your letter of the 30th, inst. this

and was very much pleased to hear that you will soon be free and propose coming back here, but I am very sorry to say that I do not know exactly what to do with relation to stock matters for you. Ty long letter to you of about a week ago will have explained the situation theroughly. I ought to have posted you carlier, but you know how we are situated here and that must be Obologi, I arranged with Edison this morning to cable to you asking if 21,000, would be of any service to you, and if so, to draw on him at three days sight for same.

I hope that you will not leave la Bolle France before I got over to see you. Thy cannot you arrange to come back on the "Overon" about the loth, January? That is the time that I propose returning from my trip to England.

Yours vory truly

.

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Dear Sir:-

Er Boubloday has returned to town free losseville, and I propose sending his to you sax Friday might. Is he to go to lawronce or Fall River? If the station at Fall River will not be ready for you to start in there, I want he boubleday to apone the time between new and when it will be ready, in lawrence, so that you can further post him on our work, as I arranged with you when I saw you last.

Please let me have a roply by Friday morning's mail without [21].

Yory truly yours,

88

Movember 14th.

The Armington & Sims Go.

Providence, R. 1

Doar Sirs:-

Peferring to Order No. sont herewith, I beg to state that it is absolutely desential that you should stat the angument to Mt. Garmed inside of fourteen days. This is the longest possible time that we can gave you, and therefore mill rely upon your not disappointing us in the matter, as we have undertaken to start our plant about the lith, December.

Very truly yours,

Enclosure

P. B. Shaw, Bsq.

Post Office.

liazelton. Fenna.

Dear Sir:-

the creetion of an Edison Electric light Contral Station Flagt at Condition of an Edison Electric light Contral Station Flagt at Condition for Market Condition for Section, Penna., amounting to \$20,604.41, and with a sec

Very truly yours.

Jak

Movember 1 ith.

Hossrs, forris, Taskor & Go.

Door Sirs:-

we enclose you herewith our order No. For steen paring to be shipped to Mt. Narmel, beaning. As this order is very small we trust that you wall be able to fill it for as immediately. We require to use this steam thing in connection with a time contract that we have taken, and you will therefore very such children if you can state positively the date that you can ship the paping and fittings from fhilly elephan.

very truly yours,

Enclosure.

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, . Mass.

Dear Sir:- :

We have arranged with the Isolated Company to buy one of their large engines now at lowestille to go to Tiffin, and have ordered them to ship it to 7. D. Rich, care Edison Electricallluminating Company, Tiffin, Ohio. Will you closes make the necessary arrangements to have it received there. I prosume it will be shipped inside of a week.

ery truly yours

19

November 15th.

3

Thomas P. Conant, Esq.

Weavers National Hotel,

Shamokin, Penna.

Doar Sir:-

I duly received your favor enclosing statement of the receipts for the first fifteen days record at Shamekin.

Will you please lot me have a statement of the running expenses of the station for the same period.

Very truly yours,

Wu.



Doutsche Edison Genellschaft,

Berlin, Germany.

Dear Sirs:-

Referring to our cables confirmed elsewhere, the statement that the Sawyer-Mann reorle have beaten me in a patent suit is ontirely untrue. Your Fatent Attorney will explain to you that the proceedure in the American Patent Office is that if two applicants cover the same point in their application for a patent, the matter is thrown into "interference", and the morits of the case decided by the Patent Office, and if they are appealed against the decision is revised by a higher court. The Board of Examiners whochre the scientific part of the Patent Office decided the Sawyar-Edison interference in my favor. The Sawyer people then appealed to the Commissioner of Patents, who reversed the decision of the Board of Examiners. We have now appealed to the Secretary of the Interior, but have no idea who will win. Anyway whoever wins, the case will be carried to the Supreme Court. There is really no great question involved in the application, and we fight it out on the general policy that wherever we have a

Dodische Edisch (englischart,
Berlin, Germany,

disjuite in the Patent Office we carry the matter to the highest possible Tribunal to obtain a settlement. The Sawyer interference refers to matters in relation to paper carbon, the use of which is entirely obsolete, and if I gain the case the result will simply be a little gain of prestine on my part, inasmuch as I should never think of using paper for my loop in the present advanced state of the art.

Very truly yours,





W. J. Janks, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, bass.

Dear Sir:-

Referring to your favor of the 12th, inst., we shall be very glad to make equitable arrangements with you to furnish you with two machines in place of the one you now have as a spare. At the present tiem we have not dynamos of the class required on hand, which we could send you. I will notify you as soon as we have, and will see what proposition I can make as to taking the one you now have back again. You have such a standard equipment as we were able to estimate for at the time the contract was made. with the Brockton Company. The smaller machines were not at that time designed, and it was impossible for us to contract for anything else. It is not practicable at present to use the three brushes, and I doubt very much if it would be desirable with the now system of winding, which at present is not in that state of perfection which will allow of our using it. I shall probably he able to were sure the course of ten days or so as to supplying you with two smaller machines. Cannot you arrange to put all the "late" lights, or those required in the morning, on one side of Brock ton,

Edison Electric Illuminating Co.

. Jours, May, Manager.

the circuit, so as to avoidd necessity of reversing the current through the meters on one or the other half.

The lawrence Company contracted for "N" machines and afterwards requested me to supply them with a spare, their original intention being to use an old "R" as a spare. To do what you desire will require a few extra switches and an extra resistance box I think, but at this writing we have not worked out the exact plan by which we intend to operate the two small machines in a plant where "N" machines are used for the general running.

We have not, up to this writing, been able to get the cable, of which we sent you some samples, approved by the Board of Fire Underwriters. They have appointed a Committee, however, whose duty it is to look into the matter, and immediately we can get some action taken by them we will write you as to the matter.

Vory truly yours,

9.

1883-11-15

nunch mrs Jupa

November 15th. 1883

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Doar Sir:-

Reclosed horswith please find statement giving the full particulars as to those dynamo machines maked for by you.

If there are any further details that you desire we will send them to you. We think that we can send them blue prints of the foundations in the course of ten days or so.

Very truly yours

Enclosure

El. St. - Foreign - France

November 15th.

3

J. F. Bailoy, Esq.

. Paris, France.

Dear Sir:-

Referring to cables elsewhere confirmed, I bon to inform you that I have cabled to the Societe Kleetrieque Edison,
Paris, stating that I have not get a man whom I can send to start
the Edison lamp Factory in Cormany. So many of our men have gone
to Europe that, in justice to our Home Company here and our manufucturing interests, it is imperative that we should keep what
roud men we now have to do our work in this country. We have a
groat deal of it and very few people to do it. It cortainly
seems to me that the lyry gactory ought to be able to supply the
man required.

Very truly yours

3

Socioto Industriollo et Commerciale Edison, Tyry-sur-Seine, Franco.

Doar Sirs:-

Referring to your favor of the 12th. October, I beg to give you below prices of the various Armington & Sies ongines.

I prosume the ten per cent royalty should be paid on the prices named,

Yory truly yours,

wovember 15th.

American Rell Telephone Co.

95 Hilk Street,

Boston, Mass.

Doar Sirs:-

Noforring to your favor of the 18th, inst., we hege to state that the 1000 carbon buttons were shipped to you on the 18th, inst. Will you please advise us whether you will require any more them them, inasmuch as we have to rig up specially to make them, and would like to have a number made new if you are liable to order any more within the next few menths.

Very truly yours

I enclose you herewit! our bill for the 1,000 carbons.

November 15th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have looked into the matter of the engine shown to like Insull by you when he was in the same and I am confident that it is of such a character that it would absolutely be of no use to us in our business. It would therefore be useless for me to go further into the question, unless messers. Smith, Myors & Co. get up an estirely different engine. From the explanations given me by Mr. Insull, I do not wonder that they could have built the engines so such cheaper than those we now use. They are of a very chest character and would by no means answer our purposes.

Vory truly yours,

Movember 15th.

E. Buchol, Esq.

101 Conti Street,

New Orleans, Ial

Doar Sir:-

Your favor dated October came duly to hand, but the picture referred to therein ded not arrive until a day or so back.

It affords me very great cleasure to acknowledge its receipt and to thank you for your very great kindness in sending me so charming a painting. It is very difficult to do justice to such a compliment and I therefore will not do so, but simply return you my heartfelt thanks for your very great kindness.

May I ask you to accept a copy of my photograph, which I sond by express,

with relation to the Phonograph, I have been so busy in developing my system of electric lighting for the past few years that I have been compelled to drop all other matters.

Very truly yours,

Novembor 16th.

3

C. E. Spiere, Esq.

Schurray Stroot, City

Priond Spiors:-

We are soing to have a "!" to-night, that is we propose putting the books in order up stairs in the library.

If you have nothing particularly to do, I think it would be a favorable opportunity for you to not information as to the missing volumes and duplicate sets and size groutly assist us, if you can favor us with your company. The performance will start in about eight o'clock.

Very truly yours

81

. .

3

P. B. Shaw, Esq.

Williamsport; Tonna,

Doar Sir:-

I bog to acknowledge receipt of your telegram as follows:-

"hazelton contracts signed and forwarded to you via Wondline Express, together with check and draft for twenty five por contum. Fush the work."

I commutablate you on the speedy closing of these contracts, and can assure you that the work will be pushed ahead rapidly.

Our uperintendent. He flich, will be in Mt. Carael Monday, and as seen as he has started work there, he will go to Maxelton. I presume he will be in Maxelton about fucsday or Wodnesday.

Our meterial for Mt. Carmel is all practically ordered, and we are assured of such early deliverses that I anticipate that there will be no coley in the installation of this plant, and I have every reason to believe that the Maxelton work will go forward with the sume regidity.

Vory truly yours,

Barocher 13th

. 3

A. Stuart, Esq. Secty.

Cincinnata, Ohio.

Door Sir:-

Thave your favor of the 12th, inst., and in reply beg to state that it is impossible to send you an estimate for Cynthiana until we have the position of the central station lots.

The letter as to this sill so forward to you to-day.

We can do nothing with the new estimate for Piqua until you give us the exact size of the lot, and the information written for some days back.

Very truly yours,



November 16tl

C. E. Spiers, Esq.

23 Murray Street, City.

Buagnd Spiors:-

Have you get a cut of Mr. Edison's are lamp? Proscott wants it for his book.

Vory truly yours.

3)

November 16th.

Hrs. E. Adoms,

160 Irving Stret,

Woodside, N. J.

by Dear Brs. Adams:-

Can you tell me the exact date that your late

husband first sailed for England? We want to get at it in connection with some of our bisiness hardon telephone Quits

Yours yory truly,

November 16th.

Paul D. Dyor. Esq.

care A. Stuart, Esq.

Cincinnati, Ohio

Doar Sirt-

· now

Under separate cover we cond you some of our special rejects, which we desire you to fill our for each town you canyans. Please he careful to charin as reliable information as you can possibly got in regard to local prices. We also wish you would note on this report the date you arrive in a town and the date you loave it.

Yery truly yours

1

November 14 t

Paul D. Dyor, Esq.

Now Orloans, La.

Doar Sir:-

Referring to your favor of the 13th, inst. with relation to the trouble at Careloville, Mr. Edison state that the fault was with the engine used. No cannot imagine how the local people at the property of the candle power with the impute or expect to bring the lamps up to the candle power with the impute or running at 1100 revolutions when 1500 revolutions is required. Retary engines generally take in steam at 100 lbs, and let it out at 40 lbs. Four horse power is all that is required.

31

November 16th

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Jawrence, kass.

Door Sir:-

The enclose herewith blue prints of the districts of Mangleton.
Tiffingend St. Carrol, together with plans of our central stations.

We desire you to some us a complete list of the electrical material required in each of these places. As gravely. Go forwards.

Enclosure

Hovembor 10th.

Paul J. Dyor, Enq.

Post Office.

Now Orleans, la

Door Sir:-

T onelose you herewith letter of introduction to in

W. b. Boringer, of the In. Telephone co., ger Orleans, In., who is the montleman you are to now there.

Yery truly yours

oppor 16th.

A. Stuart, Esq. Secty.

Cincinnati, Chic

Dear Sir:-

In accordance with the attached forms we send you under separate cover by some sail two blue prints each of Synthiana and Maysvillo. One of these prints is marked with the rod circle, in which it is desirable to obtain options on lots, and the other one shows there we propose running our lines; We send you those latter in order that you may inspect them and if there are any difficulties which would provent our fellowing the course shown on same, we shall be flad to be advised of it. Purthermore if there are any additions which you wish to make or any portion of the districts marked that you desire to cut off, we wish you would advise us by letter to that effect, at the same time returning the charts which we send you.

We pursue this course in order that it may not be necessary for us to make more than one electrical determination for each place, as these determinations consume a great deal of time, which at the present moment we can but likely ill afford to lose. The date when you will receive the estimates for those places entirely depends upon the degree of prespiness which is used in

Cincinnati, Chio.

Staurt, Esq. Socty.

returning to us the information asked for herein.

yary truly yours,

Novombor 16th.

cosrs. Dergmann a co.

302 Avenue B, city

Dear Sirs: - :

The bearer of this, or Bibler, has been engaged by us to take charge of the construction of our sole lines for village plants.

will you please confer with him as to any stock you may have on hand which capht be useful to us in this work, as I may possibly be able to take it off your hands.

Yours truly

1. S.I.

Royambar 16th.

3

Patrick & Carter,

Tolograph Instrument Makers, Philadolphia, Penna.

Dear Sirs:-

Can you possibly may be the date that you made the first telephones for me, tenether with a copy of the order, copy of the bill you rendered me and where the telephones were delivered and any such information that aight suggest itself to you.

If you have copy of any drawings used by you in making the above referred to telephones, I should be glad it you could loan than to me.

Vory truly jours,

2ac

I refer more espendly to the carbon Telephone's

November 16th.

E. T. Greenfield, Esq.

41 Ann Stroot, City

Doar Sir:-

The borrow of this, Wr. Nibler, has been engaged by us to take charge of our line construction work for village plants. He Hibler informs me that he is acquainted with you. If you can give him any information such as your experience at Sunbury and Shamekin would suggest to you, I shall be much obliged.

Very truly yours,

19

November lith

Charles T. Hughes, Feq.

Morgan House,

Poughkoopsic, N.1

Dear Sir:-

In accordance with the attached form we mend you under separate cover by same meal with the prints of Pounhkoopsie, genemarked with a red circle, within which it is desirable to obtain options on lots, and the other shown the course of our street installation. In relation to the latter, we such you to examine it very carefully, and if there are any obstacles which would provent our running the lines as shown thereon, we desire you to advise us of them by letter, also make any suggestions you may think desirable. Purthermore if you wish to add to the district or cut off any portion of it, we desire to be advised of the fact with accurate information as to alterations. We pursue this current in order that it may be modessary for us to make only one oldestrical determination, which shall be final, as at the present time we are so pressed with work that we can very ill afford to lose time ever mughling.

Yory fruly yours,

Zale

Revember 16th

H. Ward Joonard, Esq.

care Edison Electric Illuminating Co.

Brockton, Mass.

Doar Sir:-

customers connected, the number of lights they are burning, the amount of their bills, for last wouth. Those cullocted and uncollected. Also the amount of the romaing expenses of the station for last month and expected detailed information that you can give me, as I have gain, and again asked you. What I desire is a dotailed statement and not the general remarks to the effect that overything is running moothly.

Yours truly,

sales

November 17th.

N. C. Yost, Esq. Troas.

Edison Electric Illuminating Co.

Hazleton, Penna,

Dear Sir:

I beg to enclose you herewith contract signed by myself for the crection of a central station plant at Hamleton, Pa.,
and I have the pleasure to acknowledge receipt through Mn Shaw of
your check for 31,000, and the draft of your president drawn in
my favor at ten days sight for 34,171.10, the latter being accepted
by you on the 15th, November.

My Superintendent leaves here to-morrow night for Mt.

Carmel, Pa., and immediately he gets through there, which will be
about Tuesday, he will proceed to Hazleton and start the work there
keantime all our material has been ordered, and we will push the
construction of the station as vigorously as possible.

Very truly yours,

By S. attorne

Enclosure.

November 17th.

. B. Shaw, Maq

Williamsport, Penns

Dear Sir:-

I have your favor of the 10th, inst, enclosing two signed copies of the contract for the installation of a central station plant for the Edison Electric Illuminating company of Mazioton, also check of the Treasurer for \$1,000, and also a draft
drawn by the President and accepted by the Treasurer for \$4,171,10
payable the 20th, of this month. I have acknowledged receipt of
same to the Treasurer of the Commany.

Vory truly yours,

Jay

torumon zomi

Straight Jino Engine Co.

Syraeuso, R. Y.

Door Sirs:-

I have your favor of the 15th, inst, and note contents,

I will discuss the matter with Mr. Sweet on his viniting me here in New York. I have wired you this morning that I will see him any day that he may call usen me.

Vory thaly yours,

2al

November 16th.

John Do Jacy Duffy, Esq.

132 Wassau Street, City

Dear Sir:-

Referring to your favor of the 17th, inst., all we require is men to make make to scale here in our office from data already obtained by our agents outside.

Very truly yours,

Sl

Revember 16th. S

S. B. Eaton, Esq. Prest.

Clt

Doar Sir:-

We have your favor of the lifth inst., and can have the estimates you refer to made immediately we learn from in Markle the towns he requires convensed.

Can you give us his address, as we wish to reach his by telegraph immediately, in order to give our canvasser, who is now in Madison, instructions to proceed into MacMarkle's servitorys

2au

November loth.

Frank H. Mc. Cormick, Esq. Prost.
Williamsport, Penna.

Dear Sir:-

Will you please have the certificates of stock due Mr.
Edison, under his basis of settlement with you, issued in his name
immediately the authorization of the increased capital is effected.
Of course of the Company decide to pay the cash instead, we shall
be glad to receive your Treasurer's check for the balance still
due.

Very trely yours

& J P.S

November 19th, 18th,

Gustav Soldan, Esq. Supt.

104 Guarck Street, City.

Doar Sir:-

Mr. Matchinson reports to me that he is very mixious to get some more 50 light machines. Will you please hurry the orders you have for them, namely, the balance of the ten on an old order and the ten which I recently ordered from you.

We are also urgently in need of 200 and 300 light machines.

I enclose you herewith an order for ten 200 light machines, and would urge you to get the requisitions quickly as possible. I am urgently in need of at least five of them.

Yours truly,

November 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Guorek Stroot, City.

Doar Sir:-

Will you please alter my order No.26, for ten 200 light dynamos, to five 200 light dynamos, as I find that will be quite sufficient for present purposes.

I enclose you herewith a further order (No.26) for five 300 light dynamos.

I may state that every dynamo ordered by me to built has now boom placed. This remark applies equally to the orders sometime proviously placed and those sent to-day, including the above, and you will therefore see how necessary it is to push them through quickly.

Yours truly

Vember 16th o

The Armington & Sims Co.

Providence, R. I.

Door Sirs:-

I beg to enclose you herewith all the letters we have received recently from Shamekin with relation to the engines there. I received a second telegram restorday stating that a second engine had broken flown. The rejects from our man do not seem to agree exactly with the statement of the case as shown in your favor of the the lith, inst.

Will you ploase return this correspondence as soon as possible, and oblige,

Very truly yours,

Jan

Enclosure.

November 19th.

W. S. Androws, Esq.

lawrence, Hass.

Doar Sir:-

Referring to your favor of the lith. Inst., we will supply in lord with the spare dynamos at the earliest possible moment, but at this writing it is impossible to say how soon we will be. We are straining every nerve to turn machines out, but when I tell you that the patterns were only completed the last of last weel you will understand that it will take a little time before we can have the machines ready to deliver to in lord, inascuch as we have Isolated Company orders of from three to four months standing, which take precedence of everything else.

Very truly yours

Al



ovember 19th.

W. S. Andrews, Esq.

caro Edison Electric Illuminating Co.
lawrence, Hass.

Dear Sir:-

I think we ought to pay an Parry a salary just to cover his boarding expenses, or I might pay his board and a nominal salary bosides. Will you please lot my know her useful he is to you and we will pay his assordingly?

I have another man who is by no means ar well posted as Forry, but whom I should like to send out to a station to learn the practical works of I was transmit that you might well do this if you were to put him say under noubleday at wall River.

Will you please let no know if you can make any disposition of his services. The property and all the experience that he has get has been in Goorel Street for the last few months, and before he went there he was with Kosers, Verity, of london. I funcy he was their bookkeaper, but he has a liking for mechanics, and I should very much like to make use of him if only a layer to Mr. Johnson. Of course if you was use his and find out afterwards that he is of no use, we could tell him so.

Please advise us as to this at your early convenience.

DOGG TWO

.

1883-11-19

In addition to the Pall River, Tiffin and Nomburgh stalions, we have closed contracts formWindleton, Penna. 1,000 lights, Bellefonte, Penna. 100 lights and Ht. Carnel, Penna. 500 lights. You will therefore see that we shall need a good many men later on, and the more we can break into our work move at the smallest possible expense the better,

Very truly yours,

81

The Armington & Sims Co.

Providence, R. 1

Doar Sirs:-

Referring to your favor of the lith., I telegraphed you on Saturday to send an engine, with the same size pulley as that proviously sent, to Shamekin. I received a telegram yesterday from Shamekin stating that the second engine had broken down, and immediately wired you to some a man on to Shamekin at once. I have wired you this morning asking you to answer my telegram, as I am very anxious to knew whether the engine has been shipled and if the man has started, as I am very much afraid that our Shamekin plant would eque to a standstill, and this would be very disastrous. Every moment's delay in not sending your man there will cost us a great deal of money, as we are only able to run one engineous, which compels us to reverse the current through the motors and this prevents our getting any correct meter records.

Very truly-yours,

Jac

Have since got your telegram varying engine

W. S. Andrews, Esq.

Lagronco, Bass

Doar Sir:-

peforming to your favor of the lith, lest, to Mr Edison, he now instructs no to send you a copy of the questions and incore but wishes to improse upon you that this is solely for your use.

Yory truly jours,

81

A relet November 20th.

J. J. Jonks, Esq. Managor.

Brockton, Mass.

Doar Sir:-

Will you please inform no if you think we can take our exports away from Brockton right away. If not, what date would suit your convenience?

Yours truly,

2-ale

November 20th.

John Mullon, Esq. Treas.

Shamokin, Fonna.

Doar Sir-

We best to draw your attention to the fact that there is still xxx a balance of \$3,000, due to us under our contract with you for the erection of the plant at Shamekin. It was the understanding of our Er Insull when in Shamekin last that the balance due at that date should be settled shortly from the proceeds of sales of \$3,000, of bends. We have only so far received a remittance for \$1,000, on this account, and would esteem it a favor if you would oblige by sending us a check for \$2,000, to balance, so that we can close out our account,

Very truly yours

Jak



loyombor 20th.

W. D. Rich. Esq.

Bush House,

Bellofonte, Penna.

Dear Sir:-

Wo are notified by our fromht broker that he has securd for us the following rates:-

For Tiffin, Chio, via the lackswanna Foot Preight Jino, first class, 50 cents, second class, 40 cents, third class, 35 cents, fourth class, 27 cents. Each of these rates is subject to a rebate after the arrival of goods at their destination, as follows, first class, 0 cents, second class, 4 cents, third class, 3 cents, fourth class, 2 cents. To Newburgh, via the New York, West Shore & Buffalo, first class, 20 cents, second class, 40 cents third class, 10 cents, fourth class, 10 cents, and carlead lots are to be billed at 7 cents for hundred pounds, and anything less than carleads, but not less than 5000 pounds is to be billed at U cents. To Mt. Carmel, forma, via Philadelphia & Reading, first class, 40 cents, second class, 82 cents, third class, 25 cents and fourth class, 18 cents, upon shipments in carleads we can obtain a rate of 14 2 cents par hundred pounds, but on account

1883-11-20

of the Trisgular manner in which it is necessary to be sent forward voice not expect to be able to take advantage of this rate of 14.2 cents.

Please soo that material sent toyyou is hilled in accordance with the above and advise us of any excess.

Yery truly yours,

The T. A. Edison Constn. nept.

Bv

Control of the contro

November 20th.

W. Preston Hix, Esq.

338 West Wain Street,

louisville, ly.

Doar Sir:-

We have your letter of the 17th, inst. in reference to the option on the let chosen for central station purposes in louisyille running out in ten days.

We enclose herewith map of Joursville, and beg to call your attention to the fact that if we can obtain a lot in Alocks 40, 41 or 42, which are marked in redclose pencil, it will reduce the cost of the street installation by about \$20,000. The most desirable joint for this lot is where we have made a star in red. You will see that it would be economy to pay a good price for a lot in this locality, considering the heavy expenditures which will be avoided by doing so.

Kindly let us hear from you as quickly as possible as to what you can do in the matter, and oblige,

Yory truly yours,

The T. A. Edison Constn. Dept.

iv A

November 30th.

mor mesh.

Hessrs, Warris & Robinson,

Trust Co's Building,

Bartford, Conn.

Dear Sirs:-

Mn Mastings referred to us a lotter from you a few days ago in which you requested a memoranes of the installations we have made and the assumt of each contract. We beg to attach a statement giving the information you desire. The first column shows the nominal capacity of the plant, the second the number of lights included in the district wired and the third the total amount of the contract.

Very truly yours,

The T. A. Edison Constn. Dort.

Ву

SI



November 20th. 3

Spencer Bordon, Esq.

P. O. Box 3311,

Boston, Mass

Doar Sir:-

In roply to your favor of the 10th, inst., which through pross of work has romained unanswered until to-day, we beg to say that we were fully aware of the fact that we had not included spares in the estimates for Norwich and Natick. You will notice that the boiler caracity necessary for the operation of these plants is 92 horse power and we have supplied in each case a 14 2 x 13 ongine to do the work. By reference to the tabulated formula of indicated horse power at different initial pressures of steam in the Armington & Sims catalogue, you will find that at 350 rovolutions per minute the maximum caracity of the engines above referred to is 202,8 herse power with 100 lbs, pressure. In practice we usually employ about 120 lbs, pressure, and, in order to satisfactorily and officiently operate a plant of the size of the one in question, the speed of this engine need not On this account there is so much margin left that we consider it unnocessary to furnish a spare engine.

1883311

In relation to the dynamics, the machines which we propose supplying are of the type known as the T machines, and their maximum capacity is 507 lights. By this you will see that the actual especity of each of these plants is 1,134 lamps, instead of the unit we employ, namely, 1,000. In the case of Norwich the conductors are calculated to carry 1,216 lights, as shown on the estimate, and in the case of Natick they have been calculated at 1,000 lights. In each of these instances the number of lights embraced by our street installation is the maximum number that can possibly be burning at any one time. In order to tax these conductors to their fullest extent it would be necessary that every light in every building in the whole the covered by them should be lift and this is an event which will never take place,

In relation to our proposed hulldings for contral station purposes, if at any time it is desirable to increase the capacity of the plant it can be done by making additions to the buildings, but inasmuch as our experience has proved to us that large and expensive buildings (expensive in comparison to the size of the plant) are derogatory to the acceptance of our estimates, we considered it advisable in each of these cases to design a building just sufficiently large and convenient for the working

the extends and thousand out of the standard o

maximum capacity is 309 lights. By this war

the plants we proposed to install at Norwich and Natick. If in either case the local people, with whom we have to anal, desire a larger building erected, weewill furnish plans and esti-

Trusting that this explanation will satisfy points in question, we are,

Sponcor Mordon, Esq.

· Poston, Pass.

Doar Sir:-

We beg to return herewith letter and sketch addressed to be Bodskinsen by Mr. D. S. Bates.

In commenting upon the exec, we would say that it is impossible for us to prepare such a man as we can estimate from unless we have a chart drang to scale. We should like to obtain a chart of Webster such as we have described, but we do not feel that we can no to the expense of having a survey made of the town in order to obtain it. As a general thing in places of this size there is a city engineer, and from this gentl-man we obtain the chart we require at a cost which has never yet extended \$25., even in places of the size of fansas city. We shall be glad if you can suggest any way in which we can obtain the maps we have abled you for, and trust that you will favor us with an early response to this letter.

Very truly yours,

Tho . A. Edison Constn. Dopt.

Hy I

3.

My Dear Mr. Waterhouse:-

I loave here for Jondon on the 11th.

December, and shall be glad if you will kindly cable if there are any matters requireng Mr. Edison's Contrator attention prior to my departure, so that I can got them all in shape before I leave.

I thought possibly there might be some documents in connection with the amalgamation scheme requiring his signature, and it would be necessary for me to arrange to have them fixed up on their arrival here before I leave, otherwise they would, in all probability, have to remain ever until my return the ender January.

While in london I hope to do myself the very great
pleasure of calling on you, and will then give you some idea of
the progress of our lighting business in this country.

I remain, My Dear Mr. Waterhouse,

Very faithfully yours,

SI

Hovembor 20

Wossrs', Armington & Sims.

Providence. R. I.

Dear Sirs:-

Then you are making shipment of our Nowburgh engines, please forward them by the New York & New England Railroad, as we have a special rate on that line which we desire to take advantage of.

Vory trul/ Yours,
The T. A. Edison Constn. Dept.

By

5]

Movember 30th

7. S. Andrews, Esq.

care Edison Kloctric Illuminating Co.

lawrence.

Dear Sir:-

We have your letter of the 15th, inst., and have ordered the material you required.

In relation to the large copper wire .43 inches diameter. we find that the Ansonia people cannot supply this for about three weeks. We are trying to get it elsowhere, but at this writing cannot tell how successful we may be.

In order to avoid a repitition of the delay which may take place in furnishing you with this material, we would suggest that you sendbus a statement of wire and other material for inside work such as you think it would be advisable for us to carry in stock. | leaso let us have this as early as possible, so that there may be no delay when material is required for the balance of the installations now in hand.

Very truly yours.

The T. A. Edison Constn. Dert.

Бу

. S. Androws, Esq.

Lawrence, Hass

Doar Sir:-

We bug to emclose herewith map of the district of hellefonte, together with plan of the central station which we propose erecting at that point, and wish you to send us information at the emplose possible moment in relation to what electrical material we will require for the inside of same.

Yory truly yours,

Thos. A. Edison Constn. Dept.

By

ue 7

W. D. Rich, Esq.

Bush House.

Bellefonte, lenna,

Dear Sir:-

Referring to your arrangements with us as Superintendent of Construction, we beg to advise you that we have credited your account with the assumt of \$500. On account of the remuneration to be paid you outside of salary.

Flease adviso us what disposition you wish made of same.

Very truly yours,

Thos. A. Edison Constn. Dopt.

tor

4)

Hovember 31st

november sist

Colonel Goddard,

City.

My Doar Colonel Goddard:-

what evening can you spare to go into the question of bookkeeping for our local illuminating companies, "Acting which you so Fromised to do sometime back? What I would like to do would be to arrange a meeting with yourself, Hutchinson, Tate and myself, and I have no doubt that if you can make an appointment that the remainder of us can accommodate ourselves to your

Vory truly yours

St

Kovember 21st

3

Messrs. Malo & Wolcott,

39 Court Street,

Poston, Pass

Doar Sirs:-

Perferring to the correspondence you have had with in lowrey with relation to the suit Welch vs Edison, I beg to state that I have been trying to get at the whereabouts of Fr. Milton Adams. I now learn that he is in the fity of Mexico and will return to Europe via New York. I shall hope to advise you early of his return, so as to enable the necessary examination of him to take place in New York.

Very truly yours

Dela

Jelegroph

November 21st.

3

Cliver E. Lyman, Esq.

45 William Street, City.

Door Sir:-

Referring to your favor of the 15th, inst., I beg to state that I have not written any paper on Underground Telegraphic Systems. There is no reason whatever, except on the score of expense, why all wires operating electrical apparatus should not be underground.

Very truly yours,

Za

November 21es

Compannie Continentale Edison.

Paris, France.

Doar Sirs;-

Referring to your favor of the 1sth. October, I understand that the papers in the Austrian suit have been sent forward to you semetime back.

Very truly yours

Zue

W. S. Andrews, Esq.

lawronce, Kass

Doar Sir:-

Yours of the 30th, inst. to hand.

We yesterday ordered to be shipped to you some marine

I cannot may at this moment whom Conant will go to
Instruct. I am trying to get Lounard from Erockton to go there,
but I do not know, however, whether they can spare him from
Brockton yet.

Very truly yours, Thes. A. Edison Constn. Dept.

Dy

8-1

Novombor Blat.

The Armington & Sims Co.

Providence, R. I

Doar Sirs:-

Referring to your bill of the 20th, inst. for one No. 32, 8 2 x 10 engine, I beg to notify you that we do not propose at present to place the amount of the bill in question to your credit, inassuch as we are not at all satisfied that the trouble with the onerges at Shamokin is the fault of our people there.

If the cause of the failure of the engine is owing to the fault in the engine itself, we shall not expect to pay for a new engine being sent to Shamokin. Lending the sottlement of this matter we will hold the bill.

Very truly yours,

2nn I W. S. Androws, Esq.

lawrence, hass.

Dear Sir:-

Referring to your favor of the luth, rist, we are going to have Grower test the sulpahot of zine such as sent to lawrence. We may remark that we ordered exactly the sense as that used by the Edison Electric Illuminating Company's down town station.

Vory truly yours.

Thos. A. Edison Constn. Dept.

Ву.

S D

W. S. Andrews, Esq.

lawronen, dass.

Doar Sir:-

I have your favor of the 20th, inst. as to short postage on the map sont you. I feel very much annoyed that such a blunder should have occurred in my office. Under separate cover the maps have been forwarded to you to-day.

I have written larry to-day stating that we will pay him \$12. For wook and his travelling expenses when ordered from one town to another. I think this will please him to start on.

will leave here immediately we have a telegram from you on the subject.

Very truly yours,

The gentleman , whom I propose to send to Fall river,

Thos. A. Edison Constn. Dept.

By .

8

Kajor Flood Page, Conoral Managor,

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue,

London, E. G. England.

Doar Sir:-

Your favor of the 17th, September came only to hand.

I have been unable up to this writing to send you the trices of our machines in consequence of the models not having been turned out until quite recently. I now send you tabulated scatement which will show you the prices, speed, size &c. of the various machines we are now building. It is very difficult to get up a sample installation such as you ask for, and I think you would do better to draw on the experience of the lendon Company

ery truly yours.

Jale

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Doar Sir:-

hand.

We have delayed sending a wiroman to Tiffin in order to try and avail ourselves of a cheaper form of wiring, which we have not been able to do up to this writing as it has not been accepted by the Neard of Mire Underwriters. They have, however, the metter under advisement and promise to consider it and either refuse or accept our new form of wire. Meantime we have decided to send our wireman to Tiffin, and hope to be able to desputch him in the course of about three days. We must confess that we think you are in undue haste to get the housesexixxex vired in Tiffin, and we fail to see the minutes for your extreme anxiety in relation to the matter. Our work at Tiffin will not be interfered with by the freet.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ву

8



Nowamber 21st

3

Societe D' Apparoillage Electrique,

8 Boulevard du Theatre,

Geneve, Switzerland.

Doar Sirs:-

We have your favor of the 13th, October,

We hope to send you in the course of a week or so drawings of our 25, 50, 200 and 300 light dynamos.

We send you herewith statement of the speed and size of pulley of each of our machines we are now building, together with prices at which we are prepared to whip them P.O.E. New York City. We are propared to take any orders from you and construct machines and undertake to this same about twenty (20) or thirty (30) days after receipt of order. If your orders are small it is highly probable that we would be able to ship the state of receipt of order. The reason that the catalogue of the Edison Company for Isolated Lighting contains so little about dynamos is that it was issued at a time when my experiments in changing over our machines rendered it impossible for the Isolated Company to get at sufficient data to enable them to give proper information about the

1893-11-21

mos

The Electric Tube Company does not publish any catalogue.

I will, however, obtain from them a pricelist and forward it to

you in the course of a day or so.

The other inquiries contained in your letter shall receive my attention within the next wook, and I will endeavor to answer you fully in relation thereto.

Very truly yours,

Enclosure

P. B. Shaw, Esq.

Williamsport, Ponna

Doar Sir:-

I am in receipt of your favor of the lith, inst.

covering contract between myself and the Bellefonte Company for the

installation of an electric light plant in Bellefonte. I have

also the draft of the President drawn in my favor on the Socretary

of the company. I cannot act on this matter until I get a copy

of the estimate as amended. Immediately I get this I will

communicate with the Membergrof the Bellefonte Company in relation

to the matter. Meantime ourboork will be pushed shead. I am

expecting that Mr. Rich will be in Bellefonte either to-morrow or

the next day.

Very truly yours,

Jan

- 3

Socioto D'Apparoillago Electrique,

8 Boulevard du Thoatre,

Geneve, Switzerland,

Dear Sirs;-

Referring to your favor of the 10th. October, I bog to state that the contract with Messrs, Siemens & Halske refers alone to Cormany. It is made between the Societe Electrique Edison of Paris and a Berlin Syndicate. I cannot understand how Messrs, Siemens & Halske can Interphenewith your business, as they have no rights whatever outside of Germany. I am now in course of negotiation with my Paris Company with a view to getting better protection of our mutual interests in Switzerland. The competition which the Paris Company have entered into against your Company's, sales is entirely unauthorized by mo, and I am doing all that is in my power to provent the same.

Very truly yours,

G. W. Wilber, Esq.

Notel Woimmeister,

Atlanta, Ga.

Doar Sir;-

We have your favor of the 17th, inst..

we cannot state exactly where you will go after you get through at Atlanta, but will let you know as soon as possible

Many thanks for your kind wishes in connection with my trip to Europe, but I shall be here for two or three weeks yet.

2)

November Blst.

W. S. Andréws, Esq.

care Edison Electric Illuminating Co.

lagrence, Eass.

Dear Sir:-

To beg to notify you that from this date you will be credited with a salary at the rate of \$3. For day, instead of \$4.50 as heretofore.

Very truly yours,

Thus. A. Edison Constn. Dept.

ALBON CO.



W. S. Andrews, Esq.

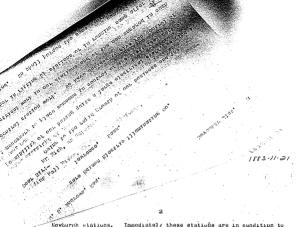
care Edison Electric Illuminating Co.
Jawrence, Bass.

Dear Sir:-

Owing to the rapid growth of our business and the possibility of our having quite a large electrical staff, we find in it necessary to place summent in control of the electrical part of our central station work. We have decided to give you control of all electrical work in our stations and of the men engaged in such work, whether in fitting up stations or in running same after the has been started. We shall purgue the same scurse with relation to the interior of the station as that followed for some time past, massely, we shall look to you to communicate to us what, is desirable each station should contain electrically, and also how the instruments see, shall be arranged.

It would soom to us desirable that you should not spend all your time in one place, but you should make such disposition of your men as to enable you to go from place to place and keep a proper oversight of the work.

Mr. Rich, as Superintendent of Construction, is now building Fall River, Mt. Carmel, Hollofonto, Hazloton, Tiffin and



have the observed part of the work done it will be necessary for you to start sume. You should also be on hand to start the stations when we are ready to light up.

At present our staff is as follows, Mr Conant, Mr Noubloday, Mr Ioonard, Mr Cakley and, as my last lotter indicates to you, Mr Perry. These gentlemen will be under your direction, and we shall look to you to state exactly what disposition should be made of them.

We think it would be well, immediately you have started on Fall River, for you to repair to New York and consult with us in relation to the matters contained in this letter.

Of course we shall look to you to see that your staff works in unison with Mr. Rich.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ву

2



Charles Matchelor, Esq.

Paris, France.

My Doar Batchelor:-

Your favor of the 4th, came to hand this

morning.

Edison states that he thinks very well of the idea of a 1000 light wire wound armature.

We have now sent models of the 23 and 50 light machines to Germany. This will give them models for the 23, 30, 100 and 400 light machines. I propose cabling and asking them whether they want model 200 and 300 light machines.

We were all delighted to hear that you thought of coming home. By letter of about two weeks back will have given you full information as to what we are doing here.

I could doubtless sell your Isolated steech at par,

Let am inclined to cable you asking whether it is necessary to do
this in view of Edison's authorization to draw on him for \$1,000.

I do not undorstand now whether you wanted \$1,000. or \$10,000.,
hopo it is the former, as money in the latter amount is very

Scarce horeabouts. I do not anticipate that I can get more than par for isolated stock, it is nominally quoted at 120 to 130, but atrictly onire nous I may state that it is a question whether the Isolated Company will pay their dividend this year, because their expenses are semething terrible, and it looks very much as if it is the old tale of bad management.

We have not yet been able to get a man to run the Armington and Portor engines, but as seen as we do so will send him forward.

Very truly yours

Burombor 21st. 3

M. C. Belknap, Esq. Troas.

Edison Electric Illuminating Co.

Highland Wational Bank.

Newburgh. N. Y.

Dear Sir:-

We bon to meknowlodge receipted the 18th, inst. covering draft for 30,500., being twenty five per cent due me under the torms of contract dated October 20th, 1883.

My ongineer will be in Nowburgh to-day to consult with the builders in relation to the building. We are pushing our street mains as quickly as possible, and will commonce shipping same meastine this work, and I as in hopes that our men will be in Nowburgh to lay the mains senetime next wook.

Immediately your building is well under way we can push our work very quickly, as we have the material ordered, and are simply waiting the finishing of the building.

Very truly yours,

attorney

Courge P. Bliss, Esq. General supt.

Chicago, Illa

Doar Sir:-

Again referring to your favor of the 14th. 1nst., I bente give you below copy of the memorandum received from im E. H. Johnson in relation to the trouble you complain of with the Automatic regulators:-

"I prosume this is due to the increased resistance of the magnet coil when heated. The resulty that occurs to me is to occasionally re-adjust the spring. I have not noticed any such action in our own."

Very truly yours,

Zun

A. A. Cowles, Esq. Secty.

19 Cliff Street.

Dear Sir;-

I have your favor of the 19th. November, and have the pleasure to enclose you herewith assignment of twelve and one half Cretract per cont of my accommon with the Edison Bloctric Illuminating Company of Follefonte, Penna, I also enclose you copy of the agreement referred to fer your files.

You omitted to send me the formal order for the wire, which heretefore I have been in the habit of executing. yery truly yours.

Revember 31st.

C. W. Cooke, Esq.

Post Office,

Grand Haven. Hich.

Doar Sirt-

they named.

After you get through at Madison, Wis. please canwass Grand Mayon, Wiles, Mattle Creek and Tpsilenti, all in Michigan.

It would be as well for you to communicate with un John R. Markle,

1. 0. Mox 97, Detroit, Michi, an it is for his account that we are making the canwasses. Please canwass these towns in the order

Very truly yours,

11

W. H. Dwelley, Jr. Esq. Treas.

Edison Electric Illg. Co.

Fall River, Mass.

Dear Sir:-

Your lotters and tolograms as to sending Groonfield on to Pall River came duly to hand, and we wired you last night that Fitch would leave this evening with one man and suggesting that you had better look up other men in the meantime. Of course the shorter the time that you keep Mr. Fitch in Fall River, the less will be the expense to yourself. I do not know exactly what you will have to pay for his services, but I presume it will be a small amount on ordinary wages and beard. However, I shall charge you whatever Greenfield charges me.

I am strongly of the opinion that your company should have nothing to do with the wiring, that is so far as the consumers are concerned. You know my vious fully on this subject, and I will therefore not trouble you individually.

Very truly yours,

Timesedison Constn. Dort.

Ву

Hovember 23m

Inul it. Dyer, Esq.

101 Carondelot Street.

Now Orleans, la

Doar Sir:-

I enclose you horowith information as to part of the

territory that it is desired should be canyassed in ...ow Orleans.

Of course will canvass considerably outside of the area named.

Yours truly,

November 23nd, 3

H. M. Doubloday, Esq.

care Edison Electric Illg. Co.

Lawrence, Mass

Dear Sir:-

I send you become he house of questions and answers, and would draw your attention to the fact that it is marked for private use only. You must not show this book to anybody whatever without the permission of this office. I also return you your answers, on which you will notice a few rewarks by Mr. Rdison. We says that the answers are very good, and that you can post up with the further assistance of the book sent you to-day, and Mr. Andrews. Please return your answers when you have looked ever Mr. Edison's remarks.

Vory Truly Yours,

Thos. A. Edison Constn. Dopt.

ŝу





Hossrs. Marris & Robinson,

Trust Co's Building,

Hartford, Conn.

Dear Sirs:-

We have your favor of the leth, inst;

We were unable to answer it by return mail as the writer was out of town. You will find in the Danbury estimate under the head of "Sterling Station" 250 lamps are put in at sixty cents each, but since the estimate was made the price has been reduced to fifty cents. The customers do not pay for the lamps. They are paid for by the Company, just the same as the Company would pay formed in the running expenses. In feet lamps are part of the running expenses. The leesl company will have to pay fifty cents for the lamps, which is the same price as the Lamp Pactory sells them to all its customers. The lamps you refer to are the sixteen candle lamps, and those are sold at forty cents. Our lamps will average upgards of 900 hours life, but me absolute guarantee is given as to this. As a matter of fact they average considerably where them 600 hours, and we set this time of burning in order to be within the mark.

We sent you yesterday all the information we have about

Brockton.

noenidos a nieros. .erezo:

,brultand,

The Newburgh Company was formed sometime ago and the plant is now being erected. Withinnthe last week we have closed contracts for Bellefonte, Penna. 800 lights, Mt.Carmel, Penna. 500 lights, Fazleton, Penna. 1,000 lights, and these plants are now being erected. Besides these we are running a plant at Tiffin Chief for 1,000 lights. We have in all six central stations now in the course of construction, besides Sunbury, Shamokin, Lawrence and Brockton, which have been running some considerable time now.

Thos. A. Edison Constn. Dopt.

Вy

Charles T. Hughes, Esq.

Morgan liouse,

Poughkoopsio, N. Y

Friend Fughes:-

Again referring to your favor of the 15th, inst.,

In Edicon says that he does not like the idea of lighting Rondout and kingston in the way you will be a would suggest that talk

Very truly yours,

Ties. A. Edison Constr. Dept.

Rv

to Mr. Edison about the matter the next time you see him.

Bergmann November 22nd

Messrs, Bergmann & Co.

25.5 Avenue B. City

Dear Sirs:- .

Have your received from Hilan two sockets? We have a letter from them in which the following occurs:-

"We have sent to Bergmann # Co., upon the suggestion of Min-Bailoy, two sockets out of the 500 of the last shipment. We have found them so roughly made, besides the general defects of the new model of key sockets, that we will not take them without a reduction in price of not less than fifty per cent."

Very truly yours,

November 32nd. 1983.

David Wilson, Esq.

545 West 33rd, Street, City,

Doar Sir:-

Will you ploase make one set of zines for the 200 light machine of the motal you would propose using, providing we gave you orders for our zine castings at 5 4 cents per pound. What we want to get at is the quality of the motal, how we can work it and its tensale strength.

Please let us have this as early as possible.

I enclose you formal order to cover it.

Very truly yours.

The Edison Bachine Works,

. .

Demas Barnes, Esq

20 Park Row, City

Dear Sir:-

Referring to your favor of the 7th, inst., my opinion on the application of electricity to cars is that the motor should in most cases be placed directly under the cars, and that for small reads, such as street railreads, clovated railreads in New York or the underground railread in Lendun, electric locometion is the coming method. I think that after one read has been operated in this country electrically, so as to gain actual experience and a chance to surmount what difficulties and objections may be found, that success would be comparatively easy.

Yory truly yours,

Jak

ovomber 22nd.

J. H. Gerry, Esq.

bock Box 56,

Elgin, Ills

Dear Sir:-

Referring to your favor of the 10th, inst., there is no substance that can be used in the place of carbon pencils for an are light that will not wear away.

Very truly yours,

Tac

3

James Harris, Esq. Secty.

Bollefonte, Pa.

Dear Sir:-

I have your letter of yesterday's date, together with plan of building. The size of building you give us is 20 x 76. The size of building we have allowed for is 28 x 40. The extra amount telegraphed to Mr. Shaw for which we increased the 500 light plant to 800 lights entirely approximate, and on we find that we can erect a brick building for you of 26 x 40. instead of the frame building, as called for in the estimate. We had no idea when Mr Show tolegraphed for the additional estimate that he proposed to close a contract on the basis of it, or wo should have written a letter reducing it by several hundred dollars. We cannot put a building up of the size that you name for the price given in our estimate. We understood from Mr. Shaw that this whole matter was settled, and that our plans and estimates were accepted, and we have consequently instructed our Superintendent, Mr. Rich. to build the building 20 x 40, and have: this day telegraphed him to construct a brick building instead of a frame building. The building is so arranged that at any time it may be thought advisable to therease your plant it can be done

by onlarging the building economically.

the Bick is now in Bollefonte and will no doubt see you about these various matters, but his instructions to put up a building 26 x 40 are absilute, and if you require any alterations, I would magniful you to advise me of it immediately, but I would warn you that if such alteration is requisite it will very materially interfere with the installation of the plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

ŀу

November 22hd.1883.

Davenport, Treney & Co.

Jersey City, 'N. J

Dear Sirs:-

Poferring to my interview with your Mr Davenport this A. M., I beg to inform you that our Superintendent, Mr. Suldan, will call on you and give you an order for on zine base as a sample. I wish to got at the quality of the metal, how we can word it and its tensile strength. After we have worked your eastings in our shop, we will then settle about giving you an order. I am compolled to pursue this course of a bid I have from the men who is now making our zine bases.

Vory truly yours,

The Edisone Wachine Works,

ву

S. Elliott Rec

Dosigner & Builder of Special machinery.

Dear Sir:-

I have your favor of the 17th, inst. Nr Jackson worked for me a year or more, and I believe him to be a thoroughly
first class mechanic, and especially need on experimentallwork.
He is possibly rether prouddof his ability, perhaps too much so,
but still I found it very easy to get along with him. I always
found him sober and reliable.

Vory truly yours

2ar

Thomas P. Conant, Esq.

Weavers Mational Hotel,

Shemokin, Ponna,

Doar Sir:-

Will you kindly ask Mr. Ployd if he would undertake wiring jobs at MT. Carmel and Bellefonte, providing we can get the work for him. We might find it convenient to use his men at those passes. Toylding he as willing to give attention to the matter.

Very truly yours,

Thomas A. Edison Constn. Dopt.

Ьу

Y. S. Androws, Esq.

Jawrenco, Mass

Doar Sir:-

Your favor of the lith, inst. came duly to hand.
We cannot understand that there should be trouble with either the
marine glue or sulphate of zine, as we order exactly what is used
at the central Station. We are, however, arranging to have the
sulphate of zine tested by Grower at Seweck Street, and with relation to the marine glue, Mr. Chinnock has promised to ship same to
"you. I note what you say about clear glass bettles and will
attend to it in the future. I will have the fixtures you refer to
sent on. I will harry the variousmaterial you ask for and I can
assure you that we invariably do that anyway.

Vory truly yours,

Thos. A. Edison Constn. Dept

Ву

SJ

Personal,

November 22nd.

W. S. Androws, Esq.

Lawrence, Mass

Door Sirt-

I wish you would pay partisular attention to the movements of Jounard. Judging from the postmark on his letters he m
must spond a good deal of time on boston. Certainly after you
leave lawrence he should stay there at nights and in the day time.
The fact is I do not feel very much confidence in him, and I wint
to know whether I am justified in my opinion or not.

Yory truly yours,



Movember akind.

. D. Rich, Esq.

Bush House,

. kellefonte, renna

Door Sir:

I bon to enclose you letter from Mosses. James Harris

I telegraphed you this A. M. instructing you to put up a brick building in place of the frame building originally contemplated at Bellefonte. I also enclose you a blue print of the Bellefonte station.

I have a lotter from James Barris, the Secretary of the Bollefonte Company this morning, in which he mildly suggests that we put up a brick building 26 X 70 for the same price as the one we proposed putting up. I have written him that it was my understanding that the estimate and arrangement of the station had been accepted, and that you were instructed to put up the building 26 X 40, and I have suggested that he should see you about the matter. What they want to get is an alloyway down the side of their property. This you can arrange by having the front of the building 26 feet. Of course if Mr Harris objects to putting up the present building, you had better telegraph for instructions.

2

am going to sond a wireman to Tiffin Saturday or Sunday night. All your material is ordered and well under way.

The Pall River steam piping was shipped from Philadelphia yesterday

I wared you this A. M. stating that there was trouble at Procition, owing to the leakare of steam giping at the joints.

I trust you will be able to said someone to fix this prior to your roturn East.

If you propose coming to New York on your way from Penna.
I will most you at the office anytime except Saturday evening.

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ву

D

Dina Lamina

John T. Perry, Esq.

caro Edison Electric Illg. Co.

lawrence, Mass.

Door Sir:-

I ber to advise you that free this date you will be credited with a salary at the rate of 3122 for week, and that should we require you to leave Lawrence to go elsewhere, we will any your travelling expenses. As soon as you become more valuable in our work we shall hope to pay you better, but meantime the salary named above will cover your expenses of boarding, and inassauch as we pay your travelling expenses, you will no longer be under any personal expense, which you were under in learning our work. Hoping this will prove satisfactory to you, I remain, Yery truly yours,

Thos. A. Edison Constn. Dept.

Ву

8

Societe Industrielle et Commerciale Edison, Ivry-sur-Scine, Prence.

Doar Sirs:-

Referring to yourbfavor of the 12th, October, I bg to give you below prices of the various Armington & Sims engines purchased by us:-

> 14 2 x 13 engine with two 66° driving pulloys...... \$ 1,950.00 14 2 x 13 ongine without pulleys. 1,750.00 13 x 13 engine..... 1,800,00 8 2 x 10 engine..... 775.00 6 2 x 8 ongine..... 550.00

I prosume the ten per cent royalty should be paid on the prices named.

Very truly yours,

3

Goorgo W. Soron, Esq.

care Porter, Jowrey, Soren & Stone,

3 Broad Street, City.

Doar Sir:-

I beg to enclose you herewith check for SUEL.GG, boing balance of the amount due Judge Forter, Mr. Stone and yourself in compection with the sale of the Colonial light latents to Edison's Indian.8 Colonial Electric Company.

will you please acknowledge recipt, and oblige,

Vory truly yours.



. J. Sprague, Esq.

care Edison Electric Illuminating Co.

brockton, Mass.

Doar Sir:-

I have your favor of the leth, inst., for which accept
my thanks.

I think you will find that in other stations arrangements have been made to put the indicators as far away from the dynamos as possible.

Your remarks about steam piping shall have the attention of Mr. Rich.

With relation to Fall River, we have work thank for you have in New York, when you get through at Brockton, in which you can be more valuable to us than at Wall River. We regret not being able to semply sith your request in this connection.

We will send you the information about the spare dynamos
in a day or two. It will, however, be seen little time before
the Brockton Company can get small machines.

Very truly yours,

Thos. A. Edison Constn. Dopt.

· D...

3

I. W. Serroll, Esq.

140 Massau Street, City,

Dear Sir:-

I have your favor of the 15th, inst., and in reply beg to state that I do not see that I is necessary to add anything to the arguments in interferences A to I and No.1. The argument seems to cover everything and to be quite full enough.

Very truly yours,

Jai

Nevember Stind

E. H. Jord, Esq. Treas.

Lawrence, Mass

Dear Sir:-

I have your favor of the 17th. inst., but I have been unable to answer it until this morning, as I was not at all sure when I should be able to ship the machines to you. I am hoping now to be able to ship the machines senetime next week. I fully recognize the importance of your having them and I will not keep you waiting one moment longer than I can help.

Very truly yours,

Thes. A. Edison Constn. Dopt.

.

E. H. Jord, Esq. Treas.

Jawrence, Mass.

Dear Sir:-

Referring to your favor or the 16th, inst., 1 have annwered you elsewhere stating that 1 hope to be able to send you the machines for your central station semetime next wook.

The 200 and 300 light machines which you require for leolated business you can have about ten days or two wooks after the machines are sent you for your central station.

Thos. A. Edison Constn. Dept.

Вy

November 23rd.

3

N. Stilwell, Esq.

Monlo Park, N. J

Dear Sir:-

will you please have the doors of the office, laboratory, machine shopsand other buildings, which it is not absolutely necessary to have access to, nailed up, and a fresh lock put on the doors that it is necessary to use. I should think the simplest way to do is to have the same lock put on all the doors you require to open, and have one key to open the whole of them.

While Alfred Swanson is working for us, he is entitled to have access to the laboratory, machine shop and engine room, but after he gets through his work of course he should give up the key. Forhaps the beter would be for you to open the door for him every day and lock it up at night, but this is a matter on which you can sait your own convenience. What we wish to accomplish is to prevent all unauthorized people from getting into the laboratory.

Yours truly,

H

November 33rd.

3

essrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

will you please have a test made of the battery cell that we sent down to you semetime are.

I onclose you patent. Please roturn the patent with report as to test. We want this immediately.

Yours truly,

81

Enclosure

Battery .

Hovember 23rd.

A. A. Cowles, Esq.

19 Cliff Street, City.

Dear Sir:-

I am promised a test of the battery in the course of a day or so, and will send it down to you immediately we get it.

Yory truly yours.

November 23

. .

Frank S. Marr, Esq. Troas.

Edison Elec. Ill minating Co.

Sunbury, Fenna,

Dear Sir:-

Referring to your favor or the luth, inst., I beg to return you herewith the plan of Subbury indicating where you want the extension of your lines made. Will you please mark on the plan the maximum number of lights for use on this extension and their position, so that we can calculate what size the conductors should be.

Do I understand that you are wanting some of the new kind of wire. If so, I will sond it to you, as I have some in stock.

Vary truly yours,

Thomas A. Edison Constn. Dopt.

Ву

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- 3

Frank S. Harr, Esq. Treas.

Sunbury, Fenna.

Doar Sir:-

Since writing to you this morning your letter of the lith, has come before us. It has been mislaid and we must applorize for the apparent neglect in not replying to you before.

The price of the new form of emble is furty two cents a pound. I have quite some of it in stock, which I ordered in order to get the first lot made. We are getting excellent results from it, and think it is the best thing you can use. If you will give us some idea of the size of the wire you want, we can then send you sufficient cable for your purpose.

Again apologizing to you for our neglect yours above referred to, me remain,

Very truly yours,

Thomas A. Edison Constn. Dopt.

Ву

8/

November 23rd. 3

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

When I was in brockton I arranged with you to have a photograph made of the building. Has this been done? If not, when will it be done?

Very truly yours,

Novombor 23rd

W. S. Andrews, Es

Lawrence, Mass

Poar Gir:-

I send you herewith duplicate blue prints of the stations at Bellefonte, Mt. Carmel, Maxluton and Tiffin, and shall be glad if you will sketch on same the dispusition of the switches Sc., as suggested in yours of the Adnd. For the future I will

send two copies of blue prints of the central stations.

Very truly yours, Thomas A. Edison Constn. Dett.

Rv

November 23rd.

'Spencer Borden, Esq.

Boston, Mass.

Dear Sir:-

Referring to your favor of the dist, inst., we are very much surprised that you should have altared our estimate for Natick. If you have no objection we would prefer that you should leave us this privilege. We consider that the horwich estimate is complete in itself and does not require any alteration. There is a margin of engine capacity and a margin in the dynamos, we do not think it at all necessary to put in a spare.

You must remember that we are putting for a 1,000 light plant exactly the same engine that we use for the 1,000, and we also send to the station extra parts of such machinery that it is possible will break down. We do not think that we should leave it to the local people to say what they want in the way of a plant.

We consider our experience in this connection a great deal better

Very truly yours,

Thomas A. Edison Constn. Dopt.

ly

SI

Judgo J. F. Bunn.

Wiffin, Ohio.

Doar Sir:-

We have your favor of the 19th, inst.

Our material for wiring has been shipped to-day, and our or Isauc Walker, who has chargeof the inside wiring, will be in Tiffin in all probability Tuesday or Wednesday next to stat the work there. We think that you will find that that will be in plenty of time for the starting of the station.

Vory truly yours.

Thomas A. Edison Constn. Dept.

Laramban 33rd / S

W. S. Andrews, Esq.

ronce. Mass

Dear Sir:-

We have your favor of the 21st, inst, and will take your advice and keep, a supply of chemicals on hand,

Very truly yours,

Thomas A. Edison Constn. Dept.

y - <

.A. Stuart, Esq. Secty.

Cincinnati, Chic.

Referring to your favor of the 1sth, inst., I certainly think that efforts should be made to put plants in some, of the town already canvassed, before anything is done with relation to canvassing other towns. The extense of the work is considerable and I should not care to go ahead making any more canvasses unless Major · Eaton instructs me to do so.

Vory truly yours,

Thomas A. Edison Constn. Dort.

Movember 23rd. 3

Chroles T. Hughes, Esq.

Morgan House,

Poughkeopsie, N. Y

Door Sire

I do not at all like your Rondout-Kingston scheme.

I do not think that we have get far enough ahead to follow it out.

Thomas A. Edison Constn. Dept.

E

Ŀν

Bowenhor 23rd.

C. E. Chinnock, Esq.

207 Fearl Street, City,

By Dear Chinnock:-

This will introduce to you Br. A. S. Bovis, who wants to got as much information as possible in the course of a few days at the Central Station. By Bovis is going out for as in connection with our central station construction work, and any facilities you can give him to post himself will confer a favor usee.

Yory truly yours

LI J

November 24th.

Major S. B. Est on, President.

GS Fifth Avenue, City.

Dear Sir'-

to beg to acknowledge receipt of your favor of the said, inst. instructing us to make canvasces and estimates for Polyoke and New Redford, Mass.

We hope to be able to cond a canvascor the commonce this work within a few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

S J

В

November 24th.

Major S. B. Euton, Prest.

45 Fifth Avenue, City.

Door Sir:-

We have to acknowledge receipt of your favor of the agree, inst, instruction us to convess the following towns in Pennsylvania:-

Wellsborough, Hauch Chunk, Pottsville, Pottstown, Janeaster, Lewisburgh, Eilton, York, Union City, Wilkesbarre, Scranton,

Very truly yours,

Thomas A. Edison Constn. Dopt.

B*y*

81

November 24th.

John Mullon, Esq. Troas.

Shamokin, Ponna.

Dear Sir:-

Mo are in receipt of a letter from weeners, Borgmann

6 Co., in which they quote the following extract from a letter
received by them from yout-

"Under contract 230 temperary fixtures, shades, holders and sockets were to be furnished. Only 240 were shipped or received by us."

We have before us at the present measure the statement which was presented to our Mr Insull, when he went to Shamokin to settle our affairs there, and which he was told specified the material received on account of the contract between us, and under the heading of "temporary fixtures" you enter only 200 and give us credit for that humber. In your letter to Pessrs. Bergmann & Co. you now schooledge having received 240, and ask for a credit for 10 temporary fixtures, inasmuch as the contract called for 250. We might here state that we held the receipt of Un W. H. Douty, the President or your Company, for 350 temporary fixtures, sockets and shades complete, but inasmuch as you have only paid for 200, notwithstanding your statement to Messrs. Bergmann & Co. that you

Recolved 2000, we cannot understand why it is that you ask us for a credit for 10 more. Although we accepted your statement of the material received as being correct, it would not appear to be the case, judging from the above; in the instance we have quoted we are matisfied that it is not.

Yery truly yours,

Thomas A. Edison Comstn. Dept.

Hossrs. Habouck & Wilcox,

30 Cortlandt Street, City.

bear Sirs;-

In making shipment of the boilers you have on hand for us at the present time, will you floase forward them as follows:

| Hazolton from Elizabethport, via Philadelphia & Reading,
| Boilefonto, via Ponnsylvania R. N.

We have secured special rates over these lines.

Are you putting the names of the different companies on these boilers, as usual? If you have not done so in the case of the boilers already shipped, will you kindly fut the names of the Companies on the boiler you have on hand. For instance, the Bollefonte boiler should hear the name "Edison Electric Illuminating Company of Bellefonte", and the others should have the name of the Company in the same way, according to the town it is intended for.

Very truly yours,
Thomas A. Edison Conetn. Dept.

Ŀ,

The Armington & Sies Co.

Providence, R. I

Dear Sirs:-

In relation to the 14 x x is engine for Nowburgh, which will be ready for shipment within a few days, will you please sand it to Hazleton, Penna, instead. The Newburgh station will not be ready for some time, and we do not wish to be obliged to store more material in Newburgh than is necessary, and we can use this engine at Fazleton as soon as it is roady. Flease send it via the New York & New England, Steamer "Maryland" and lehigh Yalloy R. R., as we have secured special rates on this route, which we wish to take advantage of.

We have secured special rates to Bellefonte, Fenna. via New York & New England and Fenna, R. R., and when you are shipping to that point, please take those routes.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

2

November 27th

James Harris, Esq. Secty.

bollefonte, Fa.

Dear Sir:-

I shall be plad if you will give me an order for any 230 lumps, so as to have lawps on hand at starting the station. Those lamps we shall hill to you at exactly the aumo price as if they were bought from the lamp Puctory direct, namely, 30 conts, and the only object I have in asking for the order is so that we shall have the right to order lamps forward at such time I may find it necessary when they are required.

Yery truly yours,

Thomas A. Edison Constn., Dort.

. . .

Rovember 27th.

.F. J. Sprague, Esq.

- Brockton, Mass,

Dear Sir:-

We have your favor of the 22nd, Hovember.

We have put some of the lamps with the wire in the center upon a test at 64 candles, and find that they have just as f good lare as the regular lamps, which proves that the platina practically makes as difference.

horgann is getter along nice; with the twelve indicators, and we will send some forward to you do soon as they are completed.

Very truly yours,

Thomas A. Edison Constn. Nopt.

By

. .

Roycemer 27

d. S. Andrews, bag.

Bear Siri-

Referring to poors of the Sand. Inst. yeu can by conferring sich ir. Tick himself arrange to have the feedera prompte into a central station at points mustable to your self. I all taking up the question of chemicals for and so trying to make those a little sector than they have been.

Very truly yours.

Movember 37th.

W. S. Andrews, Pag.

". " Dear Sir:-"

Referring to your favor of the 24th.

Roy, 7 think the object you speak of, morely, being advised of the progress of br. Pich's work, will be best done by your amaunicating with him.

Yery truly yours.

.1..

Novomber 37th.

W. S. Androws, Esq.

lawrence, lass,

Doar Sir:-

Referring to your favor of the 23nd, inst, we have talked over with br. Edison what your title should be, and would suggest "Ohier Electrical Engineer." How does that strike you? It is better than "Electrician". You know electricians are in no great repute with En Edison as a rule.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

Бу

kovember 37th.

.

ir. F. S. Lear.

Sumbery, Pa.

)car Sar:-

Referring to Yours of the Eard, inst., are there no other lights on the extension you provide putting up besides the 50 mentioned as the end of extension. Shall we only stilled for 50 or wiledate our copper so as to early more lights in the future? If he, state the proposite memory.

Yory truly yours,

. C. Belling, Esq. Treas.

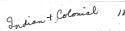
Edison Electric Illuminating Co.
Highland Mational Hank,
Mewburga, M. Y.

Doar Sir:-

We enclose herewith revised plan for the central station building to be arrected at Nowbursh, and we would impress upon
you very strongly the necessity of having the work done in strict
accordance with this plan. Any deviation from it, however slight,
it may appear to you, may seriously interfere with our urrangements, and we will have say that we will not hold ourselves responsible for any defect in the internal arrangement of the station,
should the same be caused from our plans not having been accurately
carried out. We write you thus strongly on the subject, as with
us if is a vital point, and trusting that you will see that our
requirements are not by yours contractors, we are,

Yory truly yours, Thomas A. Edison Constn. Dopt.

5y





Novembor 20th.

Major Flood Fage, General Manager.

Edison's Indian's Colonial Electric Co.

4 & 6 Throgmorton Avenue,

Iondon, E. C. England.

Doar Sir:-

We have a letter from Mossrs. Droxol, Morgan & Co.
asking for further documents, and which we have handed to them for
transmission to Iondon,

We cabled you yesterday as follows:-

"Tube Company supplied natorial absolute price contract.

You should remit immediately comply our understanding! Extremely surprised your delay. Will mail details:

The Tube Company's material was bought by us on an absolute contract, and they are not in the habit of supplying us with appropriate the supplying us with appropriate the supplying us and it has been our rule to accept their bills right along. Where an absolute figure had been given on a cortain amount of work, they accomposated us by giving us a detailed bill, which, as above stated, has been sent forward.

We cannot consider this, however, a sufficient justifi-

for your holding your remittance. We bought this material for you, hald for it and shipped it without any profit whatever to cursedlyes, and solely asks courtesy to you, and hance our request for an immediate resistance.

My Frivate Secretary, Mr. Insull, will be in london about the 20th. December, and will call upon you, and any information you may desire as to our business he will be able to give you. W. H. Dwolley Jr. Esq. Treas.

Vell River, Mass

Doar Sar:-

Referring to your favor of the with. inst., I cannot tell whether the small pair of dynamos will be reasy by the time you mention or not. Even if they were I think that we should althoughty run the large engine. In fact we should run both of them, as we should want to get the whole of the plant in good running order. before the period is up for us to hand it ever to your company. I cannot see where the great waste of power exmes in in running the large engine, and even if such were the ease, I would remind you that themselves and even if such were the ease, I would remind days, and it can therefore be hardly a matter of interest to your Company whether we have to run the large or small engines during that period. As the Corel Communical will be any other than the conditions.

Yory truly yours,

Thomas A. Edison Constn. Dept.

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W. J. Jenks, Esq. Manager, Brockton, Mass.

Dear Sir:-

Referring to your favor of the 24th, inst., we beg to state that the books and forms, which weepropose furnishing have been delayed in consequence of the absence from the city of Col. Coddard, with whom we are very anxious to confer before settling on the final forms. He has promised to No into it at the first opportunity, but as he is going to do it as a favor to us, we of course cannot press him to do so at any time that it might inconvenience him.

I think that the best thing that you can do is to go chould and use your judgement in the matter, and when we get our forms out we will give you the option of taking them or not.

With relation to Er Sprague, I find that I shall require him in New York. When the small dynamos are ready so can send some one, probably from Fall River, to put them up for you. I cannot give you at the moment the figures as to the proposed exchange, but will do so as early as possible.

Yery truly yours,

Thomas A. Edison Constn. Dept.

Βv

November 28th. 3

G. W. Wilbur, Esq.

Hotel Weinmeister,

Atlanta, Ga

Doar Sir:-

We have your favor of the 23th, inst., and are glad to hear of the progress you are making.

I have sont a check to Mr. Hagnus V. Milos as requested, and have written to lyons that if he cares to come on here, I can set him at work. I will advise you later as to where you are to go next,

Very truly yours,

Thomas A. Edison Constn. Dept.

Вv

.

Theodoro N. Vail, Esq. General Manager,

American Bell Telephone Co.

95 Milk Street.

Boston, Mass.

Dear Sir:-

I shall be glad if you will send me a specimen of the Inertia Carbon Transmitter you now issue, having the new form of lettering with "Edison Carbon Telephone" across the box.

Be kind enough to attach to the transmitter a certificate staing that all your transmitters are now issued in that form,

I wish to use this in London in negotiating with the Bnited Telephone Company, who I am anxious should follow the same course as that adopted by your Company. If you can let me have this before Docember 5th., I shall feel obliged, as I wish to send it to London by the hand of my Private Secretary, who sails immediately after that date.

Vory truly yours,

Jak



"Cashier,"

Cormania Bank.

215 Bowery, City.

Dear Sir:-

I onclose you herewith the information requested as to the Edison Electric light Co., The Edison Co. for Isolated lighting and the Edison Electric Illuminating Co. of New York.

The Light Co. has a controlling interest in the Isolated Co., owning Co. the Isolated Co., owning Co. the Isolated Co. as the Jight Co. has called a 20 per cont interest in the Ilaminating Co.

The paper that we have submitted to you for discount, and which you have kindly obliged us by so doing, was that of the Edison Co. for Tsolated lighting. This Company's business is to install electric light plants in mills and factories, and it obtains its license to do so from the Edison Electric light Co., which controls it.

The Edison Electric Illuminating Co. of New York supplies light on a motor in the district bordered by Wall, Massau, Spruce Streets and the Bast River,

Mr. Edison relations to these dompanies is that of manufacturer. He supplies them with dynamo electric machines, lamps and electrical sundries. Our main customer is the Edison Co. for Isolated Jighting, who take a large amount of material from us right along. Whe Edison Floetric Illuminating Co. has its plant creeted, and consequently buys very little from us at the present time. The Edison Floetric light Co. is simply a patent owning organization, who do nothing beyond selling licenses to use their patents, and they also defray the cost of in Edison's experiments in connection with any improvements or inventions he may get up on his present system of electric lighting.

Resides the above Mr. Edison acts as a general contractor for the installation of electric light central station plants.

Our modus operandi is as follows:

A company formed in some town gets its license from the
Edison Electric light Co., the local company requires a plant
creeted, in order to enter into the business of selling light,
or in other words, the Company with the local gas company for
business, and Mr. Edison himself undertakes the contract to creet a
plant for such a local company at a given contract price. He
does this work by permission of the Edison Electric Light Co.,
who are the sole owners of the patents.

Any further information that I can give you I shall be glad to or if you care to make an appointment, I will come down to

1883-11-28

soo you and oxplain matters further to you, as it is our wish that you should be fully posted in relation to the matter.

Very truly yours,

Thomas A. Edison Gonstn. Dept.

Бу

Enclosure.

November 28tt)

Messrs, Marris & Robinson, Es

Martford, Conn.

Dear Sirs:-

Referring to your favor of the 20th, inst., I do not at all believe in the scheme you propose. By experience is that if we depend upon other peoples believe and engines, our lights are not satisfactory.

Yery truly yours,

Thomas A. Edison Constn. Dopt.

by SJ

Soupehor s.t.

James Warris, Esq. Secty.

Pallefonte, Penna,

Doar Sir:-

be bog to confirm the addition of \$200, agreed upon by correctf and our En Eich to be paid us in consideration of increasing the size of the building. Said payment to be in addition to the amount agreed upon in our contract with you for the creation of your central station plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

bi

2

Attorney.

H. Ward. Leonard, Esq.

Lagrence, hass.

Door Sirt-

We have your two favors of the sith, inst., which do not explain to us the reason for your wanting to draw \$100. the asked pointedly for an explanation from you, as we wanted to know whether we were in error in your accounts. Will you please let us know.

we must confess

We have your new form the use for which we do not under-If you have any new forms or anything else new, will you . please let your ideas flow in the direction of this office and not to Mr. Jonks or any other manager of local companies. We wish to have the privilege of deciding what is the best form to use, and we are very glad to have any suggestions, but we wish to pass upon thom before they are communicated outside.

I send you by this mail a book of "Questions & Answers". which may give you a great deal of information. This book is for your own personal and to be shown to anyhody.

. I shall be glad to have from you such a report as you gave us from Brockton as to the number of lights burning &c. Please sond your answers to the questions here.

Very truly yours, Jau J

November 26th.

110 7 111110 11111

C. P. Lyons, Esq.

Center Street,

Dorchester Station,

Boston, Mass.

Dear Sir:-

Br. 6. w. Wilbur informs me that you would like to have a position as canvasser with us. If you care to come on immediately we can send you out to work.

Very truly yours,

Thomas A. Edison Constn. Det.

ву

Hovember 25th.

Mossrs. Markle & Hall,

l'. 0. lock Box 57,

Notroit, Mich.

Dear Sirs:-

We have your favor of the 27th, inst., and in reply, boy to may that we will see that Eattle Creek is convessed after trand Navon, and will leave Niles out as suggested.

We have been compelled to withdraw Er. Cooks from your territory temperarily, but he will return there inside of two weeks Yory truly yours,

Thomas A. Edison Constn. Dept.

Вy

November 25th, 1883.

W. P. Dwelley Jr. Esq. Treas.

Pall River, Mass.

Dear Sirt-

We have your favor of the 20th, inst., and very much recret that the second of light machine has not been shipped, but we had trouble with the eastings, which when delivered to us proved derective and we had to have a new set made. Our Supt. precises now to ship the machine by Saturday or wonday at the latest. The various articles you refer to as missing shall be supplied.

Very troly yours,

The Edison Machine Works,

1: ++



hovembor suth.

3

A. A. Cowles, Esq.

. 16 Cliff Street, City.

My Doar Sir:-

We have had the battery which you sent for test duly tested, and give you below our tester's report:-

Internal resistance, one ohm: strength, 1.18 volts: current, 1.18 amperes. When put on short circuit it runs down yory suichly.

Our testor reports that he does not think at all well of the battery.

Yery truly yours.

2ac

November 25th.1663.

Gustav Soldan, Esq. Supt.

1 104 Goerck Street, City.

Dear Sir:-

I am getting into very serious trouble indeed at the long dolay in connection with the shipment of the 330 light machine for Pall River. I really think that the matter should have been hurried a little more than it has been, and I must insist that this machine mask be shipped to Pall River immediately. Unloss we are a little more prompt on our shipments we shall get a very bad reputation. It must now be six or seven weeks since I asked that the machine be get ready.

Floase the shop, as I must telegraph to wall River this morning

I may say that the Fall River Company are prevented
from lighting a mill and getting a large payment on a big contract
in consequence of our delay, and they naturally feel the opposite
of matisfied.

Very truly yours,

The Edison Machine Works,

Ву

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U. H. Painter, Asq.

Box BU,

Washington, D. C

Bukund Paintor:-

Di you over got a letter from me asking for a map

of the United States: Our office is starving for one.

Cannot you manage to get one for us?

Very truly yours,

November 25th

2

M. Stilwoll, Esq.

Monlo Park. N. J

Dear Sir:-

Referring to your favor of the 20th, inst., I wired you to let wr. Claudius have a key of the laboratory. We long as he is at worl there as a member of ar Clarker's staff, he is entitled to a key.

Yery truly jours

21

Rovember 26th.

P. B. Shaw, Esq.

Williamsport, Penna.

Doar Sir:-

Mr. Edison insists that you telegraphed him instructing us to canvass Carlislo, Ponna. I have no record of any such telegram in the office, now do I recollect ever having received one. I have a telegram for you telling us to canvass Wellsborough, and we hope to send a canvasser there kenday or Tuesday at the latest. Will you please let me know at your early convenience whether you telegraphed any one else, as he may have heard of it through other channels?

Thomas A. Edison Constn. Deut.

Vory truly yours,

Ву

Movember 30th.

William Schwonk, Esq. Prost.

Mt. Carmel, Benna.

Dear Sir:-

Referring to your favor or the sith, inst., I think that it would be very poor policy on the part of your Company to undertake to do any viring itself. Our experience is that in such cases the local company has a very great deal or trouble with the consumers in collecting their bills, and we find it the best policy to have an outside party do the wiring of houses in the same nothed in which this is done at Shamekin. I am trying to arrange with fir Ployd to do your wiring at Ut. Carmel. I think this would be the most accommical thing for you to do. Ployd is the man that does the work at Shamekin. No is within easy reach of Mt. Carmel, and is connection with the Shamekin work should be able to hendle the work pore economically that a local man at Mt. Carmel could, if you have no objection to the work boing done by Ployd, and my only object in surgesting him is an stated above.

Very truly yours,

Thomas A. Edison Constn. Dort.

ву В

Movember 38th.

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N. Stilwell, Esq.

Menlo Fark, N.

Doar Sir:-

in Claudius reports that the clock has been removed from the laboratory and taken down to the house at Henle Park. This clock is the property of the Edison Electric Jaght Co., and in Claudius is responsible for the same. The clock should be sent hack impediately.

Yours truly.

July

. .

H. O. Stratton, Esq.

35 Oliver Street,

Boston, Eass

Doar Sir:-

Referring to your favor of the 27th, inst., I do not know where you can buy the duplicating ink you refer to, but I have some in stock that I am not at present using, and shall be glad to let you have same at cost if you will let me know how much you want.

Very truly yours

Dan 0

November 25th.

F. J. Sprague, Esq.

Brockton, Mass.

Doar Sir:-

Please let us knew at your convenience how your friend, who is at the Ereckton station with you, is posted on our work. Is he capable of taking care of a station? Also has he a sufficient mechanical knowledge to allow of his fitting up the interior of a station? Also please let us know his name and how we can reach him, us we want to see about putting him on our electrical staff. Also what was his experience before he went to Breckton

Vory truly yours,

Thomas A. Edison Constn. Dept.

Бу

86

November 25th.

F. J. Sprague, Esq.

Brockton, Mass,

Door Sir:-

Will you please arrange to return to New Yor at the earliest possible moment. You should leave things so that Mr. Jonks can permanently get on without any assistance from us. It is ouite time wexignification to run thinks by themselves.

Yery truly yours,

Thomas A. Edison Constn. Dept.

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1.1.2001

Hovember Atth.

3

George H. Bliss, Esq. General Suit.

Chicago, Ills.

Dear Sir:-

Referring to your favor of the Etrd. inst., will you ploace lot me have a minute account of your various troubles with the automatic regulator, and I will endeavor to give you a remedy for some.

very truly yours,

) aa

I have Johnson working in

Charles Batchelor, Esq.

Paris, Franco.

My Dear Patchelor: -

Will you please let me have an explanation of the enclosed, which appears in the Defect Rook for Movember 24th.

"Extract of letter from Pr Hennis, at Milan to Mr hatchelor. Cet. 28. 1652 - "The Armington & Sims ongines work budly. We soldes can run a night without changing thom off once or twice during the evening. It seems impossible to keep them to the work, and up to new it takes just twice as much oil that a "Forter" does.

We have had another accident with a Forter engine by breaking the crank rin. This makes two pines that we have broken and I find that both rines were derective, and that cracks were in the steel when rut up.*

Very truly years,

November 28th.1883.

Goorgo H. Bliss, Esq. Goloral Supt.

Chicago, Ills..

Doar Sir:-

We have your various letters making complaints about defective armstures.

In "1" armsture Mc.110, A we found a piece of a knife blade sticking between two commutator bars. This certainly was not done in our shop, as it would have been apparent before the armsture loft the shop, as the armsture was tested before we sent it out.

"k" No. 105, A was shipped at a time when we were changing Superintendents, and this may have caused the trouble, as we cannot place on anybody the responsibility of shipping the armature referred to.

Vory truly yours,
The Edison Machine Works,

hovember Zuth.

C. H. Gooko, Esq.

lost Office.

Williamsport, Ponna

Door Sirt-

when you get through at Williamsport you are to go to Battle Crook, Rich., efter that you will probably have to canvass Fillsdale, as Hesser, Earlie's Fell have decided to drop out Hilos, but they will however advise you.

Very truly yours,

Thomas 4. Edison Constn. Dept.

November 28th. 3

The Armington & Sims Go.

Providence, R. I

Dear Sirs:-

We desire to jut another fulley on the 12 % 10 engine book now at the book of one half, the estatily of the present machine new attached to the engine referred to.

Very truly yours,

Thomas A. Edison Constn. Dept.

Fovesber 29

I send you by this mail a may of

C. H. Cook, Fsq.

Dear Sir:-

Williamsport from which you will gather where we propose running our tains in that city. The canvass ous sade according to the eld rules of the Edison Electric Light Company, and is, in our opinion very defective. We want you to make an entirely new canvass of Williamsport and to take more territory extending boyand headens street. You must of course be very careful to take in the whole outside where we now propose to run our mains and as much more as possible. This work should be done by you as promptly is possible, and each day you should send forward the result of your provious nights work as we are to plot the canvass as quickly as possibly and can do this to better advantage if we have daily reports from you. It is also very important that you should conduct your work without letting the local people know the object of your visit as so propose closing the contract on the old canvass and desire this new canvass made for our own information. The importance of getting through this work rapidly you will recognize when I tell you that we expect to close the William sport Contract on Londay next and start our work there, whereas we will

be thanke to order our copper until so have completed the convass that you are about taking and shall have made a new determination on the oculs of same.

Yery smally yours

Thomas A. Faison, Construction Department,

36

lovember 30th

E. H. Johnson, Esq.

252 Avenue E, City

My Dear Johnson:-

I wish you would look into the trouble with the automatic regulator, with relation to which you will find several items from Chicago in Defect Book, 24th, Notember. If you will give your immediate attention to this matter you will obline,

SJ

El. St. -



November 30th.

Comitato per le applicazioni Bell' electricita sistema Edison in

Milano, Ttaly.

Gentlemen: -

Referring to your favor of October 4th., we beg to enclose you copy of a lotter which we have just received from Messrs Bergmann & Co. The statements contained therein are perfectly correct and your request for a reduction in the price of not less than 50 per cent is very unreasonable. If sockets were sont you from Bergmann & Co. such as you send a sample of it was an error thich could be rectified by allowing you, as Borgmann & Co. suggest, the difference between the price of the two sockets, namely, 10 cents. Those sont you were not roughly made but simply a socket which we use for factory work. We cannot undorstand how there can be so much trouble with them inasmuch as we are using the same secket here right along. The information you ask regarding other matters has been sent forward to you and the various material requisitioned for by you has all been ordered. by private secretary, Mr. Insull, is going to Furope carly in Dec-

and when in Paris he hopes to get a settlement of the outstanding account against your Company. It is uncertain whether he will be able to get as far as Filan. If he does not he will represent our views to the Paris Co. I shall feel very much disappointed if he comes back without a complete settlement of our outstanding claim against you inasmuch as we have had to pay the total abount and have by no seems received reimbursement for

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Transis and comes on a locator all distances that the properties of the properties of the first transis.

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of and on a right reductor to transfer research throughpy.

Messrs. Marklo & Hall.

P. O. Hox 97.

Dotroit, Mich.

Dear Sirs:-

Your favor of the 2th, inst, was received this morning. We will send Mr. Cooke or another canvasser back into your
torritory within the next few days.

Very truly yours,

Thomas A. Edison Constn. Dopt.

В¥

Edison Const

keyember 30th

3

John P. Fogers, Pa4.

Boston, kass.

Dear Sir: -

Peferring to your favor of the 20th inst., if you will give me the name of a stationer in Boston who would carry a stock of duplicating ink, I would arrange with him to supply it.

Very truly yours.

2al

Hoverson Stab.

A. Stuart, Fag.

Deer Sir-

Peferring to your favor of the 28th., % nave only just got your map of EMEXERIER Chillicethe Claimbed.

I not send you make by this sail under separate cover and shall be shed if you will get be central station lots within the area marked. If shall also be glad if you will have the emclosed special becaute willed up and returned at the earliest possible moment. If do not think that this town would stand more than an about light plant. If you will return the map with central station lots indicated and also the special report, I will push through an desimate in the shortest possible time.

Very truly yours,

Thomas A. Udison, Construction Department.

Hoyombor 30th.

J. J. Harmer, Pag.

Leipziger Strasse 90

Berlin, Cortagny.

Dogr Sit: -

ber.

Your favor without date came to hand yesterday. I still disser it at length within a day or so. Ty Secretary, Er. Insull, will be in London the latter end of Boschoor. He hopes 5. to get to Serlin and sill try to do some pusiness sith your company. Will you please advise him of your covenents. Its address in London will be

S. Ynsull, Jr.

31 Surton Crescent,

bondon, W. C.

England.

He will probably arrive there about the Soth, of Decem-

Very truly yours.

2ak

Fovember 30

Hessrs dermann & Co.

Gentlomen: -

We have a telegram from his Walker at Tiffin in which he says that you have quoted 15 per cent to a Church Committee at Tiffin as the discount on fixtures whereas his Shaw told the Committee that your discount was 35 per cent.

L. Walker asks us which is correct and I have sired him that the discount quoted by you is correct. Is it not possible for you to wallow here than 15 per cent on a good order for fixtures?

Very truly yours,

Thomas A. Farson, Construction Department,

w ·

L.J.

13

F. R. Upton, Esq.

Dear Sir:-

I mog to enclose you letter from Compagnic Continentale Pdison. Fr. Eddson has requested me to take this matter in hand and whilst in Paris to open a negotiation with the Compagnic Continentals on the following basis:

We to have the right to sell image to any of their lidomneous at such prices as we may consolves desire to quote to them
but to pay the compagnic Continentale a royalty of one cent a
lamp on all lemms so sold. The Compagnic Continentals to undertake not to sell lemms obstance of their territory. This applies pursicularly to Farland. Will you please let me have your
views on this subject in writing, so it is an important matter and
I will to be in perfect accord with you in anything I may do in
Paris.

Very truly yours,

81



Nov. 30th.

A. Srmart, Pag. Seaty.

Dear Sir:-

Peferring to your favor of the Blat. inst. we found on Er. Incell's return to Ken York that we had already made 11 determinations in order to get the contract for Tiffin so we thought we sould give Tiffin a little rest, and that is the reason you have not had any further determination. I roturn you he ewith br. Sunn's lotter with some personal notes of he. Edison thereon which will give you the data on which to reply to that contlemen. With relation to lighting the streets of Cynthenia this would be dealt with in precisely the same manner as lighting the houses. If our mains ran through the streets we would just make a connection to a fixture on a pole, but inassauch as our mains as a rule run through the alleys se should be compelled to put up special pole lines which would really represent so much inside wiring. If street lights are required it should be so indicated on the Cynthania mag whon it is returned to us so that we can allow for the main carrying them in making our daterminetion. We would not include in our estimate the running of Apole lines unless you so desire. We could however make a supplementary estimate to cover this point. It certainly would

facks considerable difference in the estimate but how much I cannot tell until we get the above data from you. Our method is to calculate our mains to carry a cortain amount of current to supply lights in the residences. If they are to supply lights in the streets as well they must energ so much more surrent. There our mains run through the main streets we would attach our lamps to the same as above stated. Where they do not we should have to run special poles.

23

Very truly yours,

Thomas A. Edison, Construction Department.

hovember 30

A. Stuart, Faq.

Dear Sir:

Peferring to your fevor of the 20th.

inst, your statement which you mend us does not agree with that furnished by br. Dyor. Have written to Ker Orleans to him asking him to check your statement, and if he has made a mistake in the statement rendered to us by the we will impediately honor your shock for 7100.

Very truly yours,

Thomas A. Pdison, Construction Department.

Hovember 30th.

3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Messrs. Phemps, Bodge's Go. are very anxious to have about fifty lights installed in their office.

will you please investigate their lass hours and advise me as to the matter, as I should like to oblige them in compliance with the request of my friend Mr. Gowles, of the Amsonia Brans & Copper Co. Probably you could give them a less number of lights than they ask for, which lights would yield a good average lass hours.

Very truly yours,

Jan

December 1st, 1883.

Mossrs. Macphorson, Willard & Co.

Bordontown, R. J.

Doar Sirs:-

I wired you yesterday that your forgings were made of poor from in consequence of a complaint received from Mr Soldan, our superintendent. We left the Bridgeport Forge people and ordered our material from you mainly on account of the Bridgeport from being somewhat poor. As the prices from each of you are practically the same, would suggest that you see Mr Soldan the next time you are in turn and then come up and see me about the matter.

I am rully award that the orders you have in hand were only received on the 23rd. November, but if you can hurry them you will sreatly favor us.

Very truly yours, The Edison Machine Works,

iy S

Middletown

December 1st.

H. H. Hoffmann, Esq. Prost.

Ohio Edison Electric Installation Co. Cincinnati. Ohio.

Doar Sir:-

We have the pleasure to acknowledge receipt of your favor of the 28th, ulto, enclosing contract for the erection of a central station plant at Middletown, Ohio for 300 lights, contract amounting to \$13,695.1

To return you herewith the contract, which you will notice is signed "The Raison Electric Illuminating Company of ... The name Middletown should be filled in and the soal of the Company attached.

We also send you herewith a duplicate copy of the contract duly executed by us.

Under same cover we received your draft on the United States Bank of Sew York for \$2,130, and draft on Francis R. Upton for \$1,342,33 we will send you a receipt for these remittances as soon as Mr. Ugtan accepts his draft.

We would be glad to receive a list of the stockholders of the Middletown Company, so as to give us an opportunity of inquiring into its stability and financial standing. This will be

9

1883-12-01

Documber 1st.

unnecessary, however, it you will give us an undertaking that your Installation Company guarantees the contract with the Widdletown Company.

Our understanding with Mr. Stuart was that those contracts were to be made with the Installation company itself and not with the local companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

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Enclosure.

Gruerunceri.

8

December Brd.

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A. A. Cowles, Esq. Secty.

19 Cliff Street, City

mar Sir;-

T onelose you herewith three notes dated the 12th.
November, one for \$4,939.10 due March 15th., amother for \$4,088.90
due April 15th. and another for \$5,007.73 due May 15th. in settlement of the open account with you as arranged.

Will you please acknowledge receipt and oblige,

. Very truly yours,

Thomas A. Edison Constn. Dept.

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W. S. Androws, Rsq.

Fall River. Mass.

Door Sir:-

We send you by express half dozon copies of the Engine and Boiler questions,

Any ongineers applying for a position should answer these questions, and you should see that they do this while you are present. Do not allow them to take the questions here, as we do not want them to have any outside assistance in answering our questions.

Very truly yours,

Thomas A. Edison Const. Dept.

12.

8\$

December 3rd.

W. S. Androws, Esq.

Fall River, Mass.

Door Sir:-

We have decided that hereafter we will pick the resistance lamps used in the test banks. The volts may be low, but as you propose to have the banks separate from the line, justo afford a losd for testing, this will not matter. We can tone the candle power down with a field resistance. Have you any objections to this course?

Vory truly yours,

Thomas A. Edison Const. Dept.

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A \$

Docombor 3rd. 3

li. H. Poffmann, Esq. Prest.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Doar Sir:-

Again referring to your favor of Movember Auth., we bog to acknowledge receipt of \$3,492,83, being twentyfive per cent of the contract between the Edison Electric Illuminating company of Middletown and myself and dated, said contractinging for the installation of a 500 to incandescent Light plant at Middletown Ohio.

Very truly yours,

Thomas A. Edison Constn. Dept.

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S

Goorgo M. Hopkins, Esq.

137 Tomple Court,

City.

Beaboar Sir:-

I have your favor of the lst, inst., and is reply bor to same that the trouble is I have an arrangement with hr.

R. N. Dyor, who has his office, here, which arrangement I am bound to hold to. I will see what I can do to bring you into some of our law cases, and it would not be a bad idea for you to remind me of the matter from time to time.

Vory truly yours

.

J. C. Reiff, Esq.

care Wearishoffer & Co.

54 Exchange Place, Cit

My Dear Reiff:-

Referring to your favor with relation to the Sayfort suit, I think the best way is to restione the matter just as long as possible, in fact carry out the same policy that has been carried out right along, meantime see what kind of a settlement can be made.

very truly yours,

Deles

December 3rd.

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J. C. Roiff, Esq.

care Woorishoffer & Co.

54 Exchange Place, City.

Myabear Reiff:-

I have your favor of the 1st.

The trouble with you is shon you undertake to do a thing you never follow it up or come to see me to find out what progress is being made. I should think that instead of vaiting patiently man that you would come up here and see me. The next time you are passing you had better look me up and we will talk the matter over. I have no idea of breaking any promises to anybody.

Very truly yours,

Dar

December 3rd

Messrs. Armington & Sims Co.

irovidence, R. I.

Doar Sirs:-

We have your account of Movember 30th., handed to us by Mr. Moore,

We have no bills for the items of the 47th, and soth.

October of Sit. onch. With relation to the item of November Sird.,

30.47, for man sent to Receiten, we hardly think that this expense is charmoshle to us, and have therefore abstained from crediting your account until we hear further from you. As to the charge for engines sent to Shanokin 5775., as we wrote you, we do not think that you should charge us with this engine until it is clearly established that the troubles at Shanokin were our fault or the fault of our men. It is Shappens that the engine has never yet reached Shanokin.

Doducting those various amounts there remains a bulance of \$7,592,00, for which we enclose two notes dated respectively the 12th, and 25th. November for \$3,781.43 each. These notes fall due on the 15th, and 25th. February. Trusting that these arrangements will prove satisfactory, and requesting you to return the enclosed vouchers signed, we beg to remain.

Very truly yours,

S

December 3rd.

Isaac Walker, Esq.

care Judge J. F. Bunn,

Tiffin. Ohio.

Dear Sir:-

We received the enclosed letter from Mr. Bunn this Please return it after perusal.

You will, as he suggests, use the paragon cable wherever possible, providing the customers are willing that it be used.

We have a note referred to us by Messrs. Bergmann & Co.
in relation to more material asked for by you. All your communications as to business matters should be addressed to this office,
and anything you require we will send on to you, but you must not
send your orders to Messrs. Bergmann & Co., as they simply refer
your communications to us and we have to send them a requisition
instructing them to fill your orders.

We should also like to receive from you a report as to what you are doing at least two or three times a week.

Very truly yours,

Thomas A. Edison Constn. Dept.

Rτ

Docombor 4th.

E. H. Jord, Esq. Treas.

Lawrence, Bass.

Doar Sir:-

The two spare machines which you have asked for will be shipped from here on Wednesday. You will require a 40 driving pulley on each side of your U 2 x 10 engine and it should be set to run at 321 revolutions. To you propose to have the necessary alterations to the Ux x 0 engine made yourself or do you want us to take charge of 117 Floase 107 Us know at the earliest possible moment, as we wish to have the machines running for you as quickly as possible, also give us an order to cover the necessary regulatures, switches and electrical work.

Very truly yours,

Thomas A. Edison Constn. Dept.

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1883- 12-04

December 4th. 1883.

E. H. Jord, Esq. Toas.

Lawrence, Hass.

Dear Sir:-

We enclose you herewith blue prints of sketches which the Construction Separtment not up for use in their contral station work. The 200 light machine runs at 1,300 revolutions and the 300 light machine runs at 1,200. We also enclose you statement of the speed *c. of each machine we now make.

We will have the brushes you ask for sent forward in

Vory truly yours,

The Eduson Machine Works,

Documber 4th.

Hossrs, Farkle # Fall,

P. O. Pox 27,

Detroit, Rich

Dear Sirs:- -

Yours of the 1st. inst. to hand,

our Er. Cooke leaves Williamsport for Battle Crock author-

to-day or to-morrow morning. Trusting that this will sat-

Very truly yours,

Thomas A. Edison Constn. Dept.

lly &

Frank Maios, Esq.

care Wordester & reet to.

Wordester, Mass

Dear Sir:-

We have your favor of the 30th ulto, and in reply would suggest that you we to vall Siver, when you have time within the next week or so, and call on our En Andrews and have a talk with him. On receipt of his report in relation to the matter we shall then be able to inform you whether we can offer you a position. If we do so, your remaneration to start with would be very low, as it would be senetime before your services would be of any great value to us.

Mr. Androws' address is V. S. Androws, care Edison Electric Illuminating co., Fall River, Mag.

Vory truly yours,

Thomas A. Edison Constn, Dept.

Use

U. H. Lainter, Esq

Box 88.

Washington, D. C.

Briend Painter:-

The may of the United States came to hand yester-

I cannot find that letter which you state was written to you. Johnson says you only thought it was written to you, and he informed me that when he builted for it he could not find it either.

Very truly yours,

Mossrs, J. P. Rogers, & Co.

63 India Square,

Boston, Mass.

Door Siro:-

to state that I will communicate with Mossrs. Cotton & Guild in relation to the ink.

Very truly yours,

Jak

W. C. Smith, Esq.

Poreman of Construction,

Rapid Tolegraph Go.

181 Broadway, City

Dear Sirt-

I shall be glad to see you if you are inclined to take a position with me in connection with the prection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dert.

ltv

S. J.

William Schwonk, Esq. Prest.

Mt. Carmol, Penna.

Dear Sir:-

We have your favor of the comber lat., and repret very main that "all the parties here are disgusted with the management". We are doing all we can to push the work, and the material, the supply of which we absolutely control, has rone forward. Cortain things we have to get free outside parties are being pushed as quickly as possible.

You can purchase all necessary material for virevery from Basses, Bergmann's Co., 202 Afonce P., New York. I think, however, the best way would be for you if Timit an assumt you desire sent and order it through me, and I would be careful to see you got exactly what you wanted and at the proper prices. I am of the opinion that you would be far better served if you got Ployd of Shamakin to do your viring, in which case he would supply his own material, as he carries a stock of it.

Very truly yours,

Thomas A. Edison Constn. Dopt.

/. S. Andrews, Esq.

. P. O. Box 565, .

Fall Rivor, Bass.

Dear Sir:-

We enclose you berwarth lotter free Frank Maion of Vercester, Name. So have informed this gentlemen that he had better call on you at Fall River and have a talk with you in relation to what he wante. If he does so, will you please let us hear from you as to the matter, and if he is likely to turn out a good man we might start him as the rest of the newices in our business.

Very truly yours,

Thomas A. Edison Constn. Dept.

8

Enclosure

3

W. S. Andrews, Esq.

Fall River, Hass

Doar Sir:-

The stare machines will be shipled to lawrence by Wednesday at the latest. When you go there to put them up will you please keep an exact time it takes on the machines used, as those are extra and outside of our contract and we have to charge these for it. Are the foundations all ready and has the lawrence Company had their ulax Io engine altered, so as to carry a driving pulley on each eid of the shaft. I have written to in lord about this matter by to-might's mail.

Very truly yours, Thomas A. Bulson Constn. hept

81

W. S. Andrews, Rog.

Fall Biver, Hass.

Dour Sir:-

Please let us know as early as possible when your station will be ready to start up at Fall River, as I think for Edison will se up to start it, and I accordingly would like to know, so that he can beoprepared at the time.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

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Kdison Con

٠,

Docombor 4th.

The Armington & Sins Co.

Providence, P.

Door Sirs:-

You will notice that we have sont you in a number of orders for single engines, that is we propose running them in small stations without a spare. I spake to your Er. Sina semetime upo as to what extra parts should be sent with these engines, so as to enably our men to remedy a breakeown quickly. Will you pleane but me have by return a list of the extra parts that you think should go with the U.2 X 12 and the 14 2 x 13 engines, where they are put in a station by thomselves. I indly attend to his matter immediately, as I wish to settle on our policy in this connection before I sail for Europe.

Thomas A. Edison Constn. Dopt.

M. S. Androws, Esq.

Fall River, Mass.

Bear Sir:-

We bek to inform fee that we have received a telegram from Mr. Rich stating that the Yiffin station will be ready for wiring in two weeks,

Very truly yours,

Thomas A. Edison Constn. Dopt.

1 D

. S. Andrews, Esq.

P. O. Box 305,

Fall River, Hass

Doar Sir:-

We want to got up a small book of examples around in placing lights and safety plugs. The examples should be made to scale approximately. Will you please collect them as you have leading and give sizes of wire used. I send you two rough editors of book giving sizes of wire, one for services on three wire system and one for services and inside sixing on two wire system, both have one per cent drop. I will send you to-morrow one for two wire system with two per cent drop. You will notice that the lamps are all supposed to be placed at the expression, of course this is so with services but not so with inside wiring, but I think it best to have a surplus of wire services. I think you should not have but one per cent drop, but the inside wiring can stand two per cent, especially as it will not work bad, owing to the disposition of the lamps.

Very truly yours,

Thomas A. Edison Constn. Dopt.

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Rosers. Eimer & Amend,

305 Third Avenue, City

Dear Sirs;-

we have conglaints that the meter bettler which you sent out for as have iron in them in the form of iron scales.

This renders them absolutely esclose for our jurpose, as the cold solution which we put in the bettle of solution which we put in the bettle of solutions with the put in the bettle of solutions.

Will you please rectify that in future.

Very truly yours,

Thomas A. Edison Constn. Dept.

liy

S A Edison Constn

In fact we

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James Marris, Msg. Secty.

Very truly yours,
Thomas A. Edison Constn. Doct.
By

ostimating that you sell it at the same price as has.

look upon the 10 candle land as the

who inbor 4th.

A. J. Brown, Esq.

Foreman of Construction.

Wostern Union Telegraph Co.

Jes Broadway, City.

Door Sir:-

I shall be glad to see you if you are inclined to take a position with me in connection with the erection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

...

81

December 4tl

3

Mossrs. Bergmann & Co

202 Avenue E, City

Dear Sirs:-

I notice in the supplement of your catalogue that you mention the various articles got up for the Construction Impartment. As the greater number of these things are made for use in connection with our and and the experience which results from their being made costs this perartment quite a good deal of money, I think that you should arrange your prices so that as to let us have the various afficies we order at better rates than you sell to other distomers, say an extra discount of fifteen per cent.

Will you please let me have your views on the subject.

Thomas A. Edison Constn. Dopt.

В

Docombor 4th.

Messrs. Bergmann & Co.

203 Avonuo 8, City

Donr Sirs:-

To have very serious complaints from Fall Naver of the non-arrival there of the material ordered from you for fixing up the central station. We have four men there who are unable to work, owing to your not shipping our goods promptly. This dolay in a station of any sime causes us a loss of from \$20. to \$23. a day, bosides keeping us out of our money for our work considerably longer than would be the case if you would ship promptly. It seems to me very strange that you cannot get out a few switches in less time than we can have \$301076 shipped, stoam piping made, oneshes built and dynamos constructed.

Cannot you give me as absolute date at which you can ship our orders for Fall River, Tiffin, Mt.Carmel, Maxleton, Bollafonte, Mtddleton, Bollafonte, Mtddleton, Bollafonte, Mtddleton, Bollafonte, Mtddleton, Bollafonte, Mtddleton, Mt

2

have morely \$250,000, worth of work to carry upwards of thirty days longer than we ought to, unloss you were to ship to us more promptly. If you are pressed why cannot you urrange to jut some one class back, as oursels certainly the most important, as the amounts involved in our contracts are so much higher than the land add Company or any of the illuminating Companies.

Yory truly yours,
Thomas A. Edison Constn. hept.

y veg

Hossis, Rorgmann & Co.

202 Avenue B, . City.

Dear Sirs:-

We have your extremely pleasant letter of the lst.

If you do not know sho in Shaw is, considering the time he has been in our business, I think it shout time you do.

No is the State Manager for the Edison Kleetric light in Penna., and has some connection with the Chic Installation Company.

It is not our business to communicate with in Shaw and tell him what he should do or should not do. If you want any information conveyed to him about discounts we would suggest that you do it yourselves.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

Mossrs. Cotton & Guild,

34 Wilk Stroot,

Hoston, Hass.

Door Sirs:-

We have frequent inquiries from Noston as to the duplicating ink of mine which was sold extensively some few years back, but of which none has been made for sometime past.

Hosers, J. P. Copers & Co. have suggested to me that I are will not be a constructed with you to carry a stock. If you are willing to d. so, I will have some made up in my laboratory, and will soll it to you at a reasonable price. I am anxious to pursue some such course as this in order to oblige the people applying to me for it.

. Very truly yours,

Tak

l'orsonal

December 4th.

A. B. Chandler, Esq.

44 East 14th, Stroot, City.

Priend Chandler:-

Yours of the 1st. to hand.

T have written to Brown * Smith offering thom positions.

If you hear of any other men lot me know,

ory truly yours,

Jac

Paul D. Dyer, Esq.

161 Carondolot Street,

Now Orleans, Ja.

Doar Sir:-

I have your favor of the 20th, inst.

If you are not near oome at hirstmas time we will allow you the amount of your expensed to get to pashington and back to the point where you are at work. I prosume you have nomobjection to this. Of course we sympathize with a man who goes into a town like New Orleans and buy his experience at the rate of \$30.

Our business is folting along swimmingly, at the present time we are erecting the following control stations, Fall River, \$40,000. Newburgh, N. Y., \$40,000., vollorond, \$10,000. Nr. Carmel, \$14,000. and Maloten, \$20,000. The last three blaces are in Pennsylvania. Figure, chief, \$13,000. Iffin, Ohio, \$10,000, and Maloteown, Ohio, \$13,000. We shall start in williams ort in the course of a yeak, contract \$53,000. Brockton, Lawrence, Shamokin and Supply are running elegantly, getting all the customers we want and making money. This is the state of our bist-moss in byor.

I have been going for our boys in the office for not sending you gullstine, but they do not contain any information assets

about our contral stations. The New York Central Station is just "booming", collections 210,000, per month. Pave more customers than we can possibly carry, and if we get through December without a broakdown it will simply be that the "angels" are on our side, as we have too many lights connected already.

I sail for Europelon the lith, December and shall be away until the lst. Pebruar and if you so not get any word from this officenthat you can go home to spend christmas just take "Fronch leave", and charge your expenses in your weekly statement and if they "kick fore" them to this letter.

very truly years,

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A. H. Chandler, Esq

44 East 14th. Stroot, City.

Friend Chandler:-

Yours of the first to hand.

With relation to colonel Sherman, he goes to Bucnos Ayros solely for the Edison Electric light Company, and I cannot soo how it would be possible for him to do business for any one clso. No is as you state a "quoer dick", but soems to be an indofatigable worker.

Very truly yours.

ar

December 4th, 1663.

A. A. Cowlos, Esq. Socty.

lu cliff Street, City.

Dear Sir:-

I am still receiving complaints from our Superintendent of the delay in Shipping him wire and bars for armatures and magnets. Cannot you hurry ferrard a heavy shipment, so as to give us semathing to work on. The quantities shipled to us are go small right along that we are continually in arrears and consequently obliged to continually complain, which I can assure you is very distanteful considering the manner in which you oblige us in other contracts. I a

I am having a statement projected of the exact shipments made within the last few months. I will come down and see you about the matter probably Thirsday or Priday.

Very truly yours, The Edison Machine Works,

Ву

December4th, 1883.

W. H. Ewolloy, Jr. Req. Treas.

Full River, Cass.

Doar Sir:-

We have your favor of the 1st. inst., and immediately on receipt of same arvenged to berrow an armsture from the Iso-lated despeny, in order to accomment you under the erromatances. We wared you thin norming that the armsture would be shapped this wared you thin norming that the armsture would be shapped this would be shapped this would be shapped this to nature of the old form of mechanes on hand, and consequently we have more difficulty in filling your orders for same right away.

Tryou was a armsture it tales at least two weeks to make

Very truly yours,

The Edison bachine Works,

1:-

W. P. Dwelley, Jr. Esq. Treas.

Fall Mayor, Mass.

Door Sirt-

We have the pleasure to achnowledge receipt of your favor of the lat. inst.

The spare dynamics were shipped to Mr. Andrew either on Saturday or Henday.

We purposely her them the meter supplies to until the other work is practically completed, as our experience is that pure get lost in the confusion of getting the station in order.

We will, however, have everything necessary shipped forward this wook.

, remporary fixtures and limitating joins will all go forward. Jamps will in all probability go to-day, if they were not shipped yesterday.

Very truly yours,

Thomas 4. Edison Constn. Nort.

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Docombor 4th

E. H. lord, Esq. Treas.

lawrence, wass.

Doar Sir:-

The ruch surprised to receive your favor of the 30th, Rovember. If you will look over your contract you will find that the third jayment is due thirty days after the plant is in condition to supply light, and your plant has been in condition to supply light considerable time, and what I ask for is for a payment on account, and there is a balance last which, together with the extra tubes laid, gives an ample pargin for any such troubles as you speak of. You are short about \$100, worth of meters at the present time.

Your indicators are made in accordance with the indicators for up by the Engineering Department of the Add roof Electric
light company, but notwithstanding this I propose to replace them
as seen as I have a stock of an indicatorsof a more recent design,
which I got up myself within the last month. I am not compolled
to do this under my contract, but propose to do it in order to give
you an article which, in my opinion, is best suited to your busi-

Our Superintendent claims that the work is done properly and asserts that every other injector has been connected in the same way classifier.

You state that your engines have ten inch belts, when they should have twelve inch. This is simply a matter of opinion on your fart. We have not allowed more than a ten inch elsewhere.

I sould request you to reconsider your decision as to withholding the cheel for \$5,000., as I think I am fully justified in asking for it at the present time, more especially as we have lost considerable money in the installation of your plant at lawrence.

Very truly yours,

Thomas A. Edison Constn. Dopt.

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51

Mossrs, Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We think, in roply to yours of the outh, ulto, we profor to wait and make a successful installation rather than risk failure, which the plant you suggest would in all probability load to.

Very truly yours.

Thoman . A Edison Constn. Boyt.

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7. J. Jonks, Esq. Henegor,

Doar Sir:-

We shall be ready to ship the two small muchinos to brockton sometime this work, and we shall be glud if you will send us by return an exact plan of that part of the engine room showing the position of the present small engine and dyname, also the position of the large engine and the two dynames. What I want to find out is whother it will be necessary for us to move the small engine of the large engine and the two dynames. What I want to find out is whother it will be necessary for us to move the small engine from its present position, to enable us to drive two dynames from each saide of the shart. If this is necessary it will add very materially to the expense of making the change, but if it is unnecessary on the shart with the engine and make the necessary connections for about \$650. In this of course we allow for taking back the present "I" dyname which you now have. I will write you to-morrow giving absolute

Very truly yours,

Thomas A. Edison Constn. Dopt

10.

Hearn Engines

December 4th.

Mosers, Earris & Robinson,

Turnor Louse.

Danbury.

Donr Sirs:-

We have your Payor of the 25th. November, and in reply bon to state that our business boing a peculiar one we have to use material best adapted to it. The babecel & Wilcox boiler is the only one which we can use and rely upon. It is a quick stomning boiler and takes care of the great variations in our load, which rises often from the to 130 horse power in the course of ten minutos. We have tried every other kind of boiler and find that it is the only one we can use. The old fubular boiler is very much chemper, but absolutely of no use to us.

About throe years are we experimented on every form of engine we could find and have ever since continued the same experiments. We have never, however, found an engine suitable to our business as the Jawrence engine. It would take too long to go into all the reasons for explaining the advantages of it, so it must suffice for me to say that it is as much a part of our plant as the dyname, and we shall continue to use it until we find some other engine equally as good as that manufactured by the Armington & Sims Co.

Vory truly yours,

Piqua

becombor 4th.

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1. H. Hoffmann, Esq. Prest.

Cincinnati, Ohio.

hear Sir:-

We have your favor of the 30th. November enclosing charge for \$3,499.75, being twenty five for cent of the contract price

for the crection of a contral station plant at Figua, Chic.
I shall be glad to hear from you whether the contract is

to be made with your company or the local Illuminating company of Piqua. Immediately on ruceil to this information I will send you signed contract. If the contract is to be made with the Piqua Company, pleuse send se full information as to the office of the Company, copy of the subscribbrs and amount of their subscribbs.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

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Pagua Poccombo

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A. A. dowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

We enclose you here'th order for sie for Figua, Ohio.

Please have the mecessary payers sade out and forwarded to be for
signature. The meant of our contract such the Edison Spectric
Thimmasting Company of Figua, Ohio is \$13,470.45

Yory truly yous,

Thomas A. Edison Constn. Dept.

liy.

Enclosure,

A. A. Cuwles, Esq. Secty.

19 Cliff Street, Donr Sire-

Referring to your fever of the 3rd. inst., will you please have the necessary papers in connection with the order for the middleterm, thic, wire. - ur contract is with the Edison Electric Illuminating Company of Middletown, Chie, and the amount of seme is \$13,909.31

> Very truly yours, Thomas A. Edison Constn. Dept.

boar Sir:-

I can come to leave here for Europe on Tucsday next, and should very much like to this with me a letter from you as branched the Sunbury Company, stating your experience with your plant and the learth of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immense assistance to me in dealing Muropean
with some of Mr. Edison's friends. Will you so far oblige by sending me this as soon as you can.

Vor/ truly yours,

W. H. Douty, Esq. Frost.

Shamukin, Fenna

Dear Sir:-

I am pring to loave here for Europe on Tuenday next, and should very much like to take with me a letter from you as President of the Shmackin Company, stating your experiencewith your plans and the length of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immoned assistance to Me in dealing with some of Tr. Edison's European friends. Will you so far obline by sending me this as soon as you can.

Very truly yours,

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Mossrs. Bradstreets,

201 Broadway, City.

Bear Sirs;-

I shall be plad if you will inquire into the standing of the Rdison Electric Illuminating company of Elddlatown, Butlor County, Chio. The stockholders are, we understand, as follows:D. He Callay, P. Wilson, C. P. Johnson, C. H. Wardlow and J. F. Thomas, besides some Cincinnati jurtics with whom we are acquainted What we particularly want to know is the standing of the gentlamon whose names we mention, and what is thought of this Mow Company in Hiddletown.

Very truly yours,

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W. D. Rich, Esq.

Dear Sir:-

Referring to your plan of Hellefonte, I regret to inform you that the sketch you have sent us indicates that the arrangement of the interior of the station is entirely opposed to the methods which Mr. Edison desires us to pursue in designing the interior of stations. Of course this is a matter which you could not be posted about, but I would be glad if in the future, before making any alterations in our plans, you would please refer the questions to this office, so as to give our engineers an opportunity of expressing their opinion of the matter. You have placed the cylinders of the engine as far away from the boiler as possible whereas it is Mr. Edison's desire thatit should be as neartto the boiler as possible, so that the engineer can attend to his throttle and see thaths boiler is all right without moving from one position.

I am afraid that whom Mr. Solson comes to visit Bollofonto he will criticise very severely the proposed arrangement
there. Are your foundations so far advanced that it is impossiblo for us to alter the arrangement? If so, of course we must
leave the matter as it is, as there is not sufficient margin to
allow of our building the work up arein.

I am going to have a plan prepared with the same size building as you have arranged, but with the machinery and interior of the station stranged so as to conform with Un Edison's ideas as to the matter. He is very positive in his instructions on these questions or olse I should not trouble you as to the same involved.

There is also another feint, whenever you alter the plan of a building you should advise us of the exact alterations, either before the alterations are made, which would be preferable, or if that is impossible after the work is completed.

We desire to make some alterations at Brockton just now it

and we understand that the plans in our office of the station shows by no means the same measurements as the arrangement of the station itself. Our machinery is always placed with the idea of offecting alterations at the least possible expense. We have to take out one "!" dyname at Brockton and put in two dynames, each of half the capacity of the "!", and these we propose driving from a pulley on each end of the shart of the "2 x 10 engine. We very much fearthat we shall have to take the engine down and build a new foundation in order to do this. We have written to "m. Johns for the exact measurements, as Mr. Sprague informs us that our plans are incorrect, as I have stated above.

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W. S. Androws, Rsq.

Fall Rivor, Fass.

Dear Sir:- .

A Mr. Spencer, a friend of Sprague's, is very anxious to start in our business.

I have requested him to report to you at sall River.

You might start him in like the rost of the novices and see what however of. er Edison says that he is very well posted and wall turn out a very useful man. Flease advise use the dae he arrives in yall River.

Vory truly yours,

Thomas A. Edison Constn. Dort.

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John Ott, Esq.

393 Avenue B, City

Dear Sir;-

HIR Tate complains to be that he does not thank that
the orders of our construction bejortment have any particular
attention down of the laboratory. If he has reason to make this
complaint mean, I shall bring the matter to be Edison's attention,
as I wish you to understand that it is important that any instructions we issue as to our material should receive prompt and therough attention.

Vorý truly yours,

Thomas A. Edison Constn. Dept.

Charles T. Ruphes, Esq.

horgan House,

Poughkeopsie, N. Y

Doar Sir:-

Reforming to your favor of the 2nd. December, will you please get the authority from Rajor Eaton authorizing us to canvass and prepare estimates for Engston & Rondout.

Mr. Bruesi has not yet boon able to let us have his two ostimates for leaverstraw and Poughkoopsic. Immediately he does however, we will push the estimates through as quickly as possible.

Yory truly yours,

Thomas A. Edison Constn. Dept.

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Frank H. He.Cormick, Esq. Prest.

Williamsport, Ponna,

Dear Sir;-

We wrote you on the 19th, November asking for a

Sottlement of our account with the Edison Electric Illuminating

Will you please let us hear from you in relation to the

matter.

Very truly yours.

Thomas A. Edison Constn. Dopt.

У

John Mullen, Esq. Treas.

Shamokin, Fenna.

Doar Sir;-

We wrote you on the 20th, November, asking for a set-

tlement of our account with you, but have received no reply.

"ill you please send us a remistance by return.

Very truly yours,

Thomas A. Edison Constn. hert.

Hy 38 0

December 5th. 1883.

W. H. Dwelloy, Jr. Esq. Treas.

Fall River, Hass.

Door Sir:-

You will greatly oblige us if you can arrange us a remittance by return mail for the amount of our account wannet you.

We enclose you herewith statement showing balance against you of 31,051,75

Very truly yours,

The Edison Sachine Works,

Enclosure.

Docombor 5th.

Goorge Grower, Esq.

Testing Room.

104 GoerckStreet City

Doar Sir:-

I sond you herowith helf a pound of the unique of zinc from Powers & Woightman. I shall be glad if you will test this and give us an exact xxx record of the test. Hosers. Powers & Woightman claim that this is as good zinc as I to a Fink's chomical pure.

Yours truly,

Thomas A. Rdison Constn. Dept.

Ву

Enclosure.

7. I. Garrison, Esq. Treas.

Boston, Mass.

Doar Gir:-

we enclose you heresith statement of account which explains itself, and shall be glist to receive your check for the balance 31,437,43 at your early convenience.

Yory truly yours,

Thomas A. Edason Constn. Holt.

By

81

Enclosure,

-

I. Woinschonk, Esq.

50 Wost 24th, Stroot,

Doar Sir:-

Referring to your favor of the 3rd, inst., I will

'call at your place on Wonday next about ten o'clock.

Vory truly yours.

December 5th, 1888.

Western Edison Jight Co.

Chicago, Ills.

Dear Sirs:-

We beg to enclose you herewith statement of account showing balance against you of \$2,350.15

I shall be very much obliged to you if you will allow us
to draw on you at sight for this assumt, and if we do not hear
from you by telegraph to the contrary we shall send a druft forward for collection on Saturday next.

Trusting that you will be able to oblige us, we beg to

Very truly yours,

The Edison Machine Works, -

3

& J

Enclosuro.

Docember 5th, 1883.

Mosers, Borgmann & Co.

203 Avenue B, City.

Dear Sirs; -

If you have that block or slate, will you please send it down to Soldan immediately, as Mr. Edison wants him to work it up into a commutator right away.

Very truly jours,
The Eduson tacking Works,

3

George H. Miss, Esq.

Chicago, Ills.

Dear Sir:-

We have your favor of the 3rd, inst.

One 82 canale lump is equivalent to two 16 canale lamps.

You must have the dyname you refer to in a hot place, or also you do not leep the brushes at the non-sparking point.

If they are placed two blocks away from the non-sparking point,

the machine will heat more, even if 50 extra lamps were put on it.

to must confess that we cannot understand why it is, but the troubles with machines seen to come from your corritory, as we do not hear of any troubles from any other places that amount to anything.

Very truly yours,

2ak

Bosses, Borgmann & Co.

202 Avenue P, City

Doar Sirs:-

Referring to your favor of the 5th, inst., we cortainly think that we should receive the special articles we use at prices better than these at which you sell them to outside customers. Of course we have to charge in our contract a higher price than what we pay you for the soods. Consequently unless you pursue the course we suggest, we shall be in the position of charging more for your material than it can be bought from you direct," which certainly is not advisable considering that the articles which I refer to are such as you make particularly for us, and any outside customer would certainly not require any such quanti-Why cannot you arrange to allow us a discount of 30 per cent and office people a discount of 10 per cent, or do I understand that you have already quoted 30 per cent discount. I could I should think that if you had not, that you could make an exception in the ease of central station articles as against the discounts you allow on articles of general manufacture. Yory truly yours.

Thomas A. Edison Constn. Doit.

~ ~ ~ ~ ~ ~

3

G. D. W. Vroom, Esq.

Trenton, k.

Dear Sir:-

Referring to your favor of the 3rd, inst., if you will send on the affairst that is necessary 7 will execute and return it to you forthwith.

Very truly yours

He

Straight Line Engine Co.

Syracuso, N. Y

Poar Sirs:-

Referring to our correspondence as to the straight line engine, I shall be glad if you will build me a 10 x 12 engine, having two driving pulleys thereon 50 inches in diameter and 11 inch face. We should require to run the engine at speeds varying from 200 to 270 revolutions. We shall have to depend on you entirely for drawings, as we have no drawphtamen to send you.

Jak

P. B. Shaw, Esq.

Cincinnati, Ohio.

Doar Sir:-

We have a report from one of our men at wiffin stating that you quoted diper cent discount to some local parties there for Bergmann A Co's fixtures, showns Bergmann A Co, have quoted in per cent. Bergmann A Co's discounts vary according to the mature of their orders and the people they are dealing with like mature of their orders and the people they are dealing with like mature of their orders and they have asked us to request you not to mention discounts in the future.

Yory truly yours,

Thomas A. Edison Constn. Dept.

ву

Francis R. Wpton , Esq.

East Howark. N. J

Doar Sir:-

Mr. Androws writes us that for the future he will run
the bank of test leads separate from main line in stations.
If the lamps are picked the matter of low welts will be of no
consequence.

Very trul; yours,

Thomas A. Edison Constn. Doit ..

1...

S-9

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G. W. Wilbur, Esq.

Post Office.

Mobile, Ala.

Dear Sir:-

Your favors of the 27th, November and 2nd, December ease duly to hund, and we are obliged to you for the information contained therein.

I have referred the matter of lighting the hotel to

I telegraphed you to-day to Atlanta to canvass Mobile and Manville, Va. We have no connections in either of these places, so you must choose a district for yourself, making thosanvass as comple as possible.

You had botter try and arrange your canvasses so as to

About the commencement of the New You we shall start you at work in Boston canvassing there, and shall irobably keep you Bast some time.

Your friend lyons is in Wellsborough, Ponna. . He will be in that State that whole of this month.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

R

December 6th.1883.

Mossrs. Woodward, Sherwood & Co.

17 Montgomery Stroot,

Jorsey City, N. J.

Donr Sirs;-

We have now a pattern shop in connection with our works at correk Street. Will this make any difference in our

Very truly yours,

The Edison Machine Works.

14 -

G. B. Marile, Jr. Esq.

Mazleton, Fenna.

Doar Sir:-

To have your tologram of this date, and at once telegraphed to our Superintendent, who is now in Ohio, and we hear from him that he will be in Hellefonte on Honday and will in all probability be in Healeton the next day.

Very truly yours,

Thomas A. Edison Constn. Dopt.

by 1 6

Frank S. Marr, Koq. Treas.

Sunbury, Penna.

Door Sir:-

We have information that your emineer get drunk the other might and left the station in clarge of a boy, and we also hear that your lights are very poorly regulated, and that the City letal people have threatened to re back to Gas unless there is a change for the better. We trust that this is not so, and write you for information.

Yery truly yours,

Thomas A. Edison Constn. Dept.

Εv

Docember oth.

- 2

W. D. Rich, Esq.

Post Office,

Rellefonte, Penna

Dear Sir:-

We have your various telegrams and beg to confidence the sevent telegrams we have sent you as to Ht. Carmell Hellefonte

It does not soon to us that the worf in these places is being sufficiently pushed. "This is no fault of yours, but artses from the fact that you have so much to handle, and we would remaind you that we spoke to you when you were here and thought you hade a mistake in not having men who could take the iniative in starting work, even during your absence you have get to do something of this character with them.

To-day we have telegraphic instructions that williamsport has been finally closed and work will have to proceed there right away. We will send all the information about Williamsport to Pazleton, where we presume you will be about Menday.

Enclosed please find check for \$500, as requested.

Yery truly yours.

Thomas A. Edison Constn. Dept.

24.5

Thomas Sponcer, Esq.

South Maridan, Conn.

Dear Sir:-

If you are willing to start in our business and loarn our central station work, please report immediately to Mr. W. S. Andrews at our central station in Wall River, Mass. You can find out the exact location of the station by applying to Mr. W. N. Dwelley, Jr., Treasurer, Edison Electric Illuminating Co., Norden Block, Vall River.

Until such time as your services are valuable to us we will allow you a meaning salary of \$10. for week and railroad fares att.

Floase advise us immediately if you decide to start in

with us.

Very truly yours.

Thomas A. Edison Constn. Dopt.

ну

A. Stuart, Esq. Socty.

Cincinnati, Shio

Deer Cir:-

We have your telegram stating that the lot has been purchased in Piqua, and we have also received a telegram from our Caperintedent stating that he would be in Fiqua to-morrow morning.

To must confess that we fool homomatanaeled that he should be kept in tiddletown with practically nothing to do, as his time is very valuable to us indeed, and we would urge you in theruture to be sure that you have gur lot purchased before

Very truly yours,

Thomas A. Edison Constn. Dept.

БÀ

5-1

W. S. Andrews, Esq.

Pall Rivor, Hass

Door Sir:-

Lounard is very anxious to go out to thio. We simply wish to notify you of his wishes. It must rest with you entirely as to whether he should go there.

Yours truly,

Thomas A. Edison Constn. Dept.

Ву

\$

W. S. Andrews, Esq.

Fall River, Bass.

Dear Sir:-

bly a month or six weeks work at Mt. Garmal. The last I heard or him from you wan that he was at lawrence. If he is there still when will he be disoningsed? Flower wire me on receipt of this, as I have a letter in the office which I cannot answer until I hear from you.

You's truly,

Thomas A. Calson Constn. Dept.

В

Docomber 7th.

3

L. L. Van Praag, Esq.

i. O. Box 624.

Salt Jako City, U. T.

Dear Sir:-

In roply to your favor of the Muth. Movember, Mr. Edison desires me to state that were he not well versed in the laws of electrical science he would be unable to make any progress whatever. I may myself add that he long series of successful electrical inventions have never been known to be the product of casual thought.

Yours truly

SH, PS

Docombon 7+1

W. S. Andrews, Esq

Fall River, Mass.

Dear Sir:-

I am oblined to you for your favor of the 6th. inst., onelosing design for three wire cut-out. The matter is having the attention of Mr. Johnson and No will doubtloss got up a cut-out for the purpose in time.

Very truly yours.

Thomas A. Edison Constn. Dopt.

Ву

S\$

Docember 7th.

0

J. N. Blauvelt, Esq.

23 Clinton Placo, City.

Dear Sir:-

I have made inquiries with relation to the references you gave me, which prove ontirely satisfactory.

I shall therefore be glad if you will report here for duty on Monday morning next.

Your salary will be \$12, per week.

It is of course understood that consecond here for trial, as we can hardly judge as to your abilities until we have had some exteriors with you.

Yours truly,

Shy

Judge J. F. Bunn, Esq.

Tiffin, Ohio

Dear Sir:-

We have a letter from our Mr. Walker with relation to wiring.

Our object in sonding him to Tiffin was to teach a local plumber or gas fitter to be appointed by you to do outside wirewire. The wole of the transactions with outside parties should be conducted by this plumber. Our un Walker should simply supervise the plumbers work and teach him how to run the business. It would be a great mistake for your local Company to do the wiring itself. This we find from extended experience. You should appoint some local man to do it, and have him deal with your consumers in the same manner that we are running our business in Shamokin. There the local gasfitter has charge of the wiring, and our Illuminating Company has nothing whatever to do with the matter. We sent them a man who taught the gasfitter the business, and it is with this object that Mr. Walker has been sent to Tiffin,

Thomas A. Edison Constn. Dopt.

W. I. Garrison, Esq.

boston, Mass

Boar Sir:-

We have to-day got out the map of Auburn, and we will

write you to-morrow or Bonday in relation to the matter of the desirability of the town for electric lighting.

Very truly yours,

Thomas A. Edison Constn. Dopt.

Ву

H. H. Hoffman, Esq, Frost.

Cincinnati, Chic.

Door Sir:-

We have your rayor of the 5th. inst., and in reply ber to state that we will jost you of any delay in the work at Piqua, Tiffin or Middletonn. We do not anticipate any at present, except in the case in the dolay from a natter over which we had no control of and of which you are aware, as it is connected with the purchase of a lot at Piqua.

We have not received the executed contract of Figure, although we are going should with the work. Will you please send this on. It was mailed to you some time back.

Yours truly,

Thomas A. Edison Constn. Dept.

В

H. W. Leonard, Enq.

lawrence, Mass.

Dear Sart-

We have your favor of the 4th. inst.

You must arrange will be Androve as to your going to

white. He has full charge of the electrical staff and the disposition of the services of the collabors of same. We have written

him maying that you would like to go to this.

Thomas A. Risson Constr. Dopt.

Honry C. He. Cormick, Esq. Prest.

Williamsport. Ponna.

Doar Sirt-

bey to state that the exhibits you refer to, namely, the map and ostimate, form part of our contract. It must, however, be understood that we undertake to run the lines in the lines indicated, provided we are able to get the permit from the common of the property on the route. Our estated does not cover any payment for this right, and should we be while to get past any particular point, we shall look to your climpany to make the necessary arrangements to enable us to do so.

In sonding our contract ploase give us a note confirming

You are right in understanding that we will run the station for thirty days after it is started.

Very truly yours,

Thomas A. Edison Constn. Dept.

E

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Messrs. Powers & Woightman,

City.

Doar Sirs;-

The sample of sulphate of zine, which you gave us, tested very well indued, except that there are traces of iron in it. Will you please quote us a price for this article and also sulphate of zine free from iron, the quotation to be based on order or half a ton, done up in 25 lb. tin cases. Please send us a sample of sulphate of zine free from iron. If we give you orders we would expect to receive the sulphate of zine subject to its boing tested.

Thomas A. Edison Constn. Dopt.

Rv

&J.



W. D. Rich, Esq.

Bellefonto, Penna

Doar Sir:-

Your numerous telegrams, including the long one from Pique, have come to hand.

of course all we could do was to judice the state of the work by the telegram we get here, and which we promptly repeated to you. If what you say is so, I would advise you to gom for Kr Markle and the other gentlemen for sending such an errondous telegram of this kind.

We are still, however, of the impression that you will find that you are unable to handle so much work without a little better assistance than you now have, as we have never understood that you men could go out and start work without your being present to give them proliminary instructions. Of course we may be in error about this matter, and we are interested to see how long it will take to put up the present stations and forms correct conclusions in relation to how our work should be run. I presume if your system fails you will have no objection to trying ours? We are now standing off to see what will be the result. Of course it is our with that you should be able to run the thing according to your present methods, and if you are able to do so we shall be

òr

Paul D. Dyer, Esq

Post Office

Galveston, Texas,

Door Sir:-

If you work like a rase-horse, and get through the towns you now have to canvass South before Christmas, we will give you a "picnic" after Christmas in the shape of a district in New York to canvass. It will be a kind of a vacation to you.

ra trul/,

penabor 7th.

W. S. Andrews, Esq.

Fall River, Hass.

moar Si

We shall have one of the pressure indicators got up

by John Ott sont to you immediately Bergmann turns it out.

Er. Edison will not allow me to send the model away.

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ey

S# 1)

W. S. Androws, Esq.

Fall River, Mass.

Doar Sirt-

We return you herewith sketch of your clutch which you propose to use at Jawrence. We have ordered bergmann to no ahead and make the box, leaving you to take care of the clutch part of the business.

Very truly yours,

Thomas A. Edison Constn. Dept.

.

8 J

Enclosure.

Edmund Davis, Eso.

(a) Washington Street.

Providence, R. I

Dour Sir:-

We have your favor of the 5th, inst. If you will "send proof of the sketch shack you propose issuing so shall have no objection to your using it, providing so approve of it.

Very truly yours,

Zak

I. C. Walker, Esq.

care Judge Bann,

Tiffin, Ohio

Dear Sir:-

We have your letter of the 4th, December,

Your duty at fiffin is to take in hand the local flumber and his men and teach them how to do our wirework. This you should be able to do without any further assistance from New York. We were able to follow this course at Shamokin and we are able to do it at Tiffin. In fact it is imperative that this should be done, otherwise our expenses will be very heavy in sending men from here and having them do the wiring in Tiffin. The wiring also should not be done for our account. The plumber should be appointed by Judge Nunn, and any material they use we will bill to them if you will notify us when you deliver it ever to them.

We have already sent you the new calculations for inside wiring and will send a table for calculating the three wires services as seen as possible.

Use the time shorts of the Isolated Company and send us a specimen of any suggestions you may wish to make and we will have shorts got up for our construction Department.

The business anyway should not be conducted by you, but

it should be conducted by the local plumber, under your supervision and direction.

I have ordered the material you speak of and will forward as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

1883-12-10

Battery, Storage

December 10th.

3

G. W. Drewko, Esq.

Clinton, E. Feliciana, F. Ja.

Door Sir:-

Referring to your favor of the 24th. Movember, I would state that your suggestion in a practicable one. An induction coil through a spark of half an inch with two colls or battery, the whole set up in portable form and having two Brishes of wire, would do the work. I have no time at all to experiment on the matter, as my business occupies the whole of my attention,

Very truly yours,

.

Docomber 10th.

3

Francis R. Upton, Esq.

East Nowark, N.J

Doar Sir:-

Jondon, W. C. England, a statement of the Jamp Company's affairs up to the endoof November. I desire this so that I can explain intelligently to Mr. Batchelor the exact standing of the Jamp Co.

I have a letter free him this morning in which he auks no to do this.

Yery truly yours,

S.I.

Dynamos

December 10th.

7. J. Jonks, Esq.

Door Sir:-

Brockton, Mass.

To have your favor of the ith inst.

As soon as our ompineers have rigored on the shotch you sent us, we will write you definitely as to what we can do in relation to tree small dynamis. We have them remay to shap, but there is no object in sending them to you until we know exactly how we can place these.

Very truly yours, Thomas A. Edison Constn. Dept.

Dor

8.0

December 10th.

W. J. Garrison, Esq. Troas.-

Poston, Pass.

Pear Sir:-

We have your favor of the 7th. inst..

We have written in such with relation to the Cornwall leat Regulators, and as soon as we hear from him will result for an name. At the present time of have no bill for them in our office.

you onclose is the first that we have heard of it. In fact we have no bills on our books for the Brockton central station.

As seen as we can get word from Mr. Rich in relation to these matters we will liquidate the claims. Meantime we must request that you do not send cheeks for same, as there may be some reason for their not being paid.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

By

Jelegraph - Gen,

December 10th.

S. B. Harvey & Thus, Hearsey,

505 Pierce Street,

. Phila. Ponna.

Doar Sirs:-

Referring to your favor of the 4th, inst., the best way to learn telegraphy is to be into a telegraph effice as a telegraph boy and pick it up in What way.

Yours truly,

December 10th

Mossrs, Barklo & Ball,

33 Congress St.,

Dotroit, Nich.

Doar Sirs;-

We have your favor of the 7th, inst., and your wishes in require to estimates shall receive our attention.

un Cooke will not be withdrawn from your territory until he gets through.

Vory truly yours,

Thomas A. Edison Gonstn. Dapt.

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December 10th.

W. D. Rich, Esq.

Doar Sir:-

The Bellefonte people object to the

uso of asbostos roofing. I presume you will satile this mutter

Yours truly,

Thomas A. Kdison Constn. Dopt.

μ,

December 10th.

W. D. Rich; Ksq.

Dear Sir!

You may remember of my spealing to you about the boilers at lawrence. We have a letter from Wh lord in which he says:-

"I know that when we feed our boilers with cold water the steam is so damp it will not do much more than half duty, although the ironsure remains constant or nearly so."

I think Mr. Lord claims that the trouble is with the injector connections to the boiler. Will you please lot me know what you propose to do in the matter.

Yory truly yours,

Thomas A. Edison Constn. Dort.

Вy

1.0

becamber 10th

W. D. Pach. Eso.

Door Sir:-

We onelose you herewith letter from Mr.

Carrison, together with bill and letter of J. W. Bailey & Son.

Will you please lot us know for return about the Cornwall Bout Regulators and J. Railey & Son's bill, as if the claims are correct we want to pay them. It nots us into rather

bad odium to have matters stand over.

Yours truly,

Thomas A. Rdison Constn. Dept.

Ву

Enclosure,

Docombor 10th.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Door Sir;-

Referring to your favor of the 6th. inst., you will have one this have received information to the effect that our Superintendent has started the work at Piqua.

Vory truly yours,

Thomas A. Edison Constn. Dest.

20

,

W. J. Hammor, Esq.

Berlin, Germany.

Dear Sir:-

Referring to your letter with date, I think if you will look up my patents you will find that one of them covers a patent for taking care of the irregularities in a gas machine.

DYNAMOS. The "!" machine is tested for 400 amperes.

300 lights means nothing, suppose they were 30 candle lights.

Plouse talk amperes. We nave satchedor the currying power in amperes. Since you received the model "!", we have reduced the resistance of the armature by using larger wire, thus ensum: it up so that it runs cool with 400 amperes on it. You people were in such a hurry to receive your model, that we were compelled to ship you the first machine we had, and because there was considerable delay in making the seignant you seem to ship the impression that we were not paying attention to you. If you had left us to ship you what we considered our book machine, we should not have shipped the 400 ampere machine, but would have waited at least a shouth after the date that we made the shipment.

We can send models of a half horse power and one smaller

size motor for sowing machines.

With relation to the lamp factory, I note what you state as to the desirability of having your lamp factory in Germany itself. I will send you the apparatus that you may order, but it will be muite impossible for us to supply your Company with any men. Our staff has already been reduced too much by sending out our assistants to Europe, and we must really look to ourselves in relation to this matter. We have now reduced the price of the ten candle lamps to 50 cents. As we make more of them we shall probably reduce the price further, but the shrinkage in the manufacture of the lamp is probably greater than in any other. We do not use any "F" lamps at all to speak of in this country.

I will have curies of estimates and plans sent forward toy we in the course of a week or so. You will be able to get information in relation to these matters from Mr. Insull, who leaves here on Tuesday.

We do not propose puting the three wire tubes in the down town district, as the whole of that district is now covered with the two wire tubes. We are, however, arranging to build another station uptown, which will be run on the three wire system.

No our small town plants, whether underground or overhead, are

Ta. & D

Dogember 10th

Colonel C. Goddard, City.

My Hear Goddard:-

I have your memorandum of the 8th, inst. I was under the impression that you were still out of town, as the estimate has been waiting here semetime.

The mere fact of my being away will not prevent your getting estimates made out here.

> Tate will communicate with you as to the dstimate. Many thanks for your kind wishes as to my trip.

If there is anything that I can do for yourover there, if you will address me care of The Western Electric Col, 59 Moorgate Street, Tondon, E. C. England, I will have grout pleasure in attending to your requests.

Very truly yours.

December 10th.

Colonel G. Goddard,

My Doar Colonel:-

I got your lotter writton Saturday this morning, and am sorry that I could not see you prior to your starting for Moston. I am now just in receipt of your latter of Sunday night.

Ly Address in London is, 21 Surton Crescent, London,

I shall be very happy to attend to any matters for you there. Flease drop me a line stating what you want me to do as early as possible, as my stay in london depends entirely upon how long I shall be kept by cortain butiness I have be attend to.

My cublo address is thould be necessary for me to use the wire,

Thanking you for your vory lind wishes, and hoping that you will have a pleasant christmas, boliove me,

Very sincerely yours,

December 10th.

Secretary,

Edison Electric Jaght Co.

74 Coleman Street,

london, E. C. England.

Donr Sir:-

Then to advise you that my Frivate Secretary, Mr. S.

Insull, will arrive in loaden about the 20th, inst., and will in
all probability be in Europe about a month.

While he is there I trust that he will be able to make arrangements with you for the settlement of my patent account, and also hope that he will be able to getan revision of my contract with you in relation to patents, as in its present form there are many objections to it. He will explain to you when he calls on you what I desire to achieve in this connection.

Very truly yours,

Docember 10th

Charles Batchelor, Esq.

Paris, France.

My Dear Datch:-

Yours of the 25th, ulto, came to hand this morning,

I will have all the data as to accounts with me when I arrive in Paris. I have not a variety of matters that I want to no into fith you there, but the main thing is to show you how necessary it is, alike for our business and your own interests, to come back here. Income your wishes in the matter I do not think you will mand my persuasion.

Write me to Jondon, saying whether you will be in Paris right along from about 27th. Documber. I hope to get there by New Year's anyway.

My Jondon address is hamuol Insull, Jr., 21 Surton Croscont, Jondon, W. C. England.

Very truly yours,

S O

December 10th

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Compagnie Continentale Edison,

Paris, Franco.

Doar Sirg-

Referring to your correspondence as to the prices I have quoted for lamps and the fact of my having entered into competition with your factory as stated by you, I ber to advise you that my Private Secretary, Mr. Samuel Insull, will be in Faris ourly in January and will call on you with relation to the matter, and I trust will be able to mic some arrangement satisfactory quality to you and myself.

Vary truly yours,

J.a. 8

Docember 10th.

W. S. Andrews, Esq.

rali River, Mass.

Doar Sir:-

Referring to your favor of the 0th, inst., I informed No. Oakley that we should no longer require his services, as I understood from you that he was hardly good enough for our work.

Yours truly,

Thomas A. Edison Constn. Dept.

13:

SI

December 10th.

W. S. Andrews, Esq.

Fall Rivor, Mass

Dear Sirt-

Referring to your favor of the 7th. 18st., we have quasted a stock of stru ordered, which of course must be used up before we start at with the straight reds which you suggest for interior us in stations. The Ansonia topic sould make the ware for us in twenty foot lengths as they do for the Tube too, but we would profer ordering it in twelve foot lengths, as it can be handled in Stigmont much easier in the latter lengths.

Very traly, yours, Thomas A. Edison Constn. Dopt.

80

E. H. Jord, Esq. Treas.

lawrence, Mass

We have your favor of the oth, inst., and in reply beg to state that the interpretation we gut upon our contract with you is exactly what we have always understood it to mean.

We do not understand what you mean as to the engine pulleys. Do you mean the pulleys on the u¹2 x 10 or the 14 2 x 13 engines as being all right, if we send you lo inch pulleys on the dynamos, that is do you want 10 inch pulleys on the spare dynamos or on the main machines.

With relation to the use of 12 inch bolts, we have very great respect for the opinion of Mr. Sims, but we must confess that we prefer that our engineers should decide all questions in relation to the engineering of our stations. When we think that our office talent is deficient, we may possibly call on Mr. Sims for his opinion in the matter.

We have written to an Rich in relation to your boilers.

He is now in Senneylvania. Of course if there is any trouble,

for which we are to blame, we will fix it.

Thomas A. Edison Constn. Delt.

J, C

Dec. IIth

3

Taylor & Co.

Willog Springs, Jackson, Co.

Oregon.

Dear Sirs:-

Roplying to your lotter of the 24th, inst. I bog to say that Professor Price, of Samperancisco, is in my opinion the most trustworthy assayer in the United States, and I would suggest your communicating with him.

Very Truly Yours,

hur Je

. 31

Hr. W. S. Androws,

Gon. Electrical Engineer.

Box 565 Fall River.

Doar Sir:-

We have your letter dated at Lawrence of the 7th, inst. in relation telephone Mr. Leonard to Ohio.

In reply we beg to say that the management of the Ricctrical Station is entirely in your hands. And you must dispose of your mon as you think bost.

In regard to the number of Ferders in the Williamsport In stallation, we had a new canvas's made of this place as the one had in the Office was an old one made by the Light Co. We are now having a new Electrical Det emination prepared, and will advise you to morrow by wire as to the number of feeders. It is antical made installation.

Vory Truly Yours,

Thomas A. Edison, Construction Dept.

Doc. IIth.

W. S. Andrews, Esq.

Gon. Electrical Engineer,

Box 565 pall River.

Dear Sir:-

In reference to your letter of the 9th, inst. we do not think it ut all likely that Piqua and Middletown will be ready as soon/as fiften is finished. At Middletown they have not yet section/the let for Central Station purposes. And the work on Piqua las only just been started, either Bellefont, or Mt. Garpel will follow, after Tiffen Piqua may come in about the same time as Azzelton, but Middletown will certainly be the last on the list.

Th relation to Sponcer plause note the attached attached attached by the botter start him to work at a seary of the Bollars per work, we to allow his railway fares.

Please return Mr. Spencer's letter for perusal.

Vory Truly Yours,

Thomas A. Edison, Construction Dop't,

Rv

Dec. IIth

W. S. Andrews, Esq.

Gen. Electrical Engineer,

Box 565 Pall River.

Door Sir:-

In rought to books of questions and answers, we do not in each case take receipts for them. Coment Doubleday & Joonard, each and a sot, but we cannot at the moment remember wheather any of them were returned or not. In any event it woul: be as well to isono a contion.

a contion. The while I for are four.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

Docombor 11th. 1883.

Gustav Soldan, Esq. Supt.

104 Coerck Stroot, City,

Doar Sir:-

Referring to the attached letter from Mr. Dwelloy, in which he complains of the workmanship on the second "H" dyname at the Plint Hills, please read same and let me have your answer at the earliest possible moment.

Yours' truly,

The Edison Hachine Works,

Ru

Liteam Engines

Doc. 11th,

Hr. Frank S. Marr, Troas.

Edison Electric Illuminating Co.

Sunbury, Penn.

Doar Sir:-

Hr Rdison has requested me to write you, suggesting that you make mire that your enter supply for Boiler will not from: up this winter. For Edison states that it is his opinion it will be affected by frost. Have the said mains been laid yet?

Vory Truly Yours,

Thomas A. Edison, Construction Dopt.

Ву

rey

December 11th.

E. H. lord, Esq. Treas.

Lawrence, Mass.

Doar Sir:-

We have your letter of the 7th, inst, addressed to Mr. Insull, in which you state that we are unbusinesslike for delaying your meters.

We would beg to remind you that this material is not made by un and therefore we only indirectly control its production. Upon the receipt of your latter we impodiately wrote to Messrs. Permann & Co. consuring them for the delay to your material and the inconvenience they put us to thereby, and in replying to us they admit the fault, and are burrying your orders to the product

There were shipped to you to-day, 10 extra bettles, 10 extra pairs sines and 10 sets of rubber fixtures each for the 12 light, 25 light, 50 light and 100 light meters, also five 12 light meters complete and fifteen'd light meters complete and fifteen'd light meters complete, and as we have stated above the balance of your order is receiving oner gotic attention.

The cost of the meters which you now have on hand at Javrence, namely, 25 for 8 lights, 25 for 12 lights, 10 for 25 lights, 10 for 50 lights and 5 for 100 lights, together with the

2

extra bottles, plates, zincs and rubber parts, amounts to about \$375., and in order to prove to you thatwe are not short on our work of the state of the same, which calls for motors of different capacities from the above, yet amounts to only \$320. The changes in the size of the motors were made of course at your request.

In view of the above facts we should be glad to receive from you your check for \$5,000,, as requested some few days ago...
There is sufficient mergin left after paying us this money to enable you to discuss safely any matters wherein you think we have failed to live up to our contract.

The lawrence installation has been pocuniarily disastrous to us, and we have urgent use for the money which we now ask you to send, and we trust that we can rely upon its receipt within the next few days.

Yory truly yours,

Jan

meters

Doc. IIth.

Mr. H. Ward Loonard.

care Edison Electric Illuminating Co.

Lawrence, Hass.

Doar Sir:

In relation to form of Neter Blank which you prepared soke little time ago, will you be kind enough to send me a copy. I believe you sent me a specimen, but it has been mislaid in the effice hore.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

Βv

90,5

Doc. IIth.

W. S. Androws, Esq.

Box 565 pall River,

Door Sir:-

Replying to your letter of the Oth, inst. in which you asked us to get nermann & Co. to make a small cheap four point switch, similar to our Lam? House changing switch. Will you please send us a diagram of what/you want drawn to acule.

Very Truly Yours,

Thomas A. Edison, Construction Dop't,

Dar

December 11th.

3

L. Woinschonk, Esq.

50 Wost 24th. Street, City.

Doar Sir:-

In reply to your note of the 10th. December, I regular very much not having been able to keep the engagement I made with you, but I was called away.

I will moot you on Wodnosday (to-morrow) at ton o'clock.

Dan

Dec. IIth,

Ceo. H. Bliss, Esq. Gen, Sup't,

Western Edison Light Co. .

52 Wabash Ave. Chicago, Ill.

Dear Sir:

We have your letter of the 8th, inst. in regard to Lime. We will be ready for the parties just as soon as they are propared for business.

Vory Truly Yours,

Thomas A. Edison, Construction Co.

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QQ.

W. H. Dwelley, Jr. Esc. Treas.

Fall River, Mass

Dear Sir:-

We learned this morning that you sent an order to the Edison Electric light Company for 300 sixteen candle power lamps for use in connection with the Pall River contral station.

we would beg to call your attention to the fact that
the Fall River installation is for ten candle power lamps.
Fall River being a coal gas town, we supply lamps of this power,
and they, in practice, are always run at twelve candles, which will
give more light than any five foot gas burner in your city.

We would strongly advise your recalling this order, or possibly there has been a mistake made and sixteen candle power lamps ordered instead of ken.

Very truly yours,

arey

Doc. IIth.

W. S. Androws, Esq.

Gen. Electrical Engineer.

Box 565 Pall River.

Dear Sir:-

Roplying to your letter of the Oth, inst. in regard to carried, don't you think it would be a good idea to simply state inclanity to him, that Mt. Carmel, Hazolton and other places are now being started, and that he could do well at those different buints! "on his own boot."

Vory Truly Yours,

Thomas A. Edison, Construction Dep't,

December 11th.

Nessra, Markle & Wall,

33 Congress Street, W,

Dotroit, Hich.

Dear Sirs:-

In further reply to your favor of the 7th. inst., we her to say that we have the map of Grand Haven prepared and will send it to you to-morrow to obtain option on lots for central station purposes. After receiving information in regard to lots, and choosing therefrom the one best suited to our business, it is only a matter of a few days to supply an estimate. We should therefore be glad to know if you would like us to send you the estimate for Grand Haven, which you could hold yourself until propared to present it to the local people, or if you would prefer us allowing the matter to remain in aboyance in this office until we receive instructions from you to go should with the work?

Very truly yours,

Thomas A. Edison Constn. Bept.

..

D. M. Osborn, Esq.

Auburn, N. Y.

Dear Sir:-

We send you under separate cover, a Blue Print of Auburn. Eact in addition to supplying us with information in accord ance with the att ched form, we wish you would be kind enough to look over the matrict we propose wiring, and ascertain if there are any obstructions which would provent our taking the course we propose. We propo so laying under-ground mains in this place, and their course it indicated by a red line.

Very Truly Yours,

Thomas A. Edison, Construction Dop't,

Documber 11th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

To have your letter of the with, inst. in reference to
the new form of special report which we went you to have filled
out for a number of towns. We do not wish you to send a man around
specially to obtain this information, but we presumed that you were
in communication with local parties who could furnish the information we required. As you will notice the form is much more
complete than the old one which we used.

If you can obtain the data for us, as stated above,
we should be glad to have it, otherwise we do not wish you to go
to any expense in order to get it.

We return herewith Mr. Dyor's report on lime as requested.

Yory truly yours,

Thomas A. Edison Constn. Dort.

y Paro

care Ohio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. 0.

oner Sir:-

Roplying to your letter of the 6th, inst. we beg to say that we cannot send the convessor to Pottsville as seen as the canvass of Circleville if completed. This will probaly be in a weeks time.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

Dec. IIth

er P. E. Shaw,

care Chio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. 0.

Doar Sir:

We have your letter of the 6th, inst. including the communication from Hr Bighter as to the progress at Ht. Carmel,
which we boy to return as equested. We are getting ahead at Mt.
Carmel just as fast as we possibly can. But of course we cannot
expect the local people there to see the difference between the
rection of a house, and the installation of an Electric Light
Plant. It will not be very long before these people are in
a bottop humor.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

. p.

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December 11th.

H Ward Loonard, Esq.

l'awrence, Mass.

Doar Sir:-

se have your lotter of the 7th, inst. in which you ask for a copy of the book of questions a Angwors.

We would beg to remind you that Mr. Edison gave you a copy of this book when he was at Brockton.

The blue book containing table of conductors you can obtain from Mn Andrews,

Yours truly,

Thomas A. Edison Constn. Dept.

Ву

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Sir John Jubboch,

15 lombard Street.

Jondon, E. C. England.

My Doar Sir John:-

This will introduce to you my Privato Secretary
for Samuel Small Small
and business representative for Secretary
there. Unlist he is only your side of the Atlantic he will have
various business matters to settle with the Edison Fleetric light
Company of london.

Any assistance that you can render him will be greatly approximated by.

Yours vory sincoroly,

Tak

December 11th

Frank S. Marr, Esq. Treas.

Sunbury, Fonna.

Dear Sir:-

that you make sure that your water supply for boiler will not from up this kinter. Mr. Raison states that it is his opinion at will be origeted by frost. Have the street water mains been laid yet?

Very truly yours

8 }

Doc. IIth

Hr. Chas. P. Lyon

Circleville, Ohio.

Dear Sir:-

We have your letter of the 7th, inst. The canvas: of Wolloboro came to shad to day.

In regard to whon you should commence canvassing a town, you should always start work at dusk, just as the people commence lighting.

Vory Truly Yours,

Thomas A. Edison, Construction Dopt.

moc. IIth.

John Jucas , Eaq .

11

Mast, Va.

Dear Sir:-

Boolying to your latter of the 4th, inst. in relation to running a machine for bereing coal by Electricty, I beg to use that the electrical part is hardly practicable. Albiess wires run through the drifts to furnish power and light, from a Dynamo at the Misting Works.

Yory Truly Yours,

3,01

Straight Line Engine Co.

Cor. nedder & Payette Sts.

Syracuse, N. Y.

We have you letter of the 6th, inst. in relation tola Pattern waker. We regret to say that we have not a man in our employ at the moment whom we could send. But are in communication with a first class pattern maker, whose services we expect to secure. On this subject will write you more definately in a day

> Very Truly Yours, Edison Machine Works.

Gen. Awson Stager,

curo We. Ginnis & Foaring.

30 Broad St. City

loar Sir:-

The following is a first of towns in Southem Illinois which I would propose to canvais and male estimates for for your

Company, Please advise us if we sall so sheed?

Alton, population 5,578,

Bollville • 10,000,

Cairo, , 9,013,

Champaign, . 5,100,

Springfield, " 19,746,

Decatur, b, 548,

Jacksonvillo, 10 937,

Lincoln, 5, 675.

Litchfield, 4,330,

Paris. 4.370

Quiney, 27,27/5.

Very trally yours,

Charles T. White, Esq.

103 Liberty Street, City.

Dear Sir:-

of it.

Have you on hand may sulphate of sine from from aron and would you be kind enough to send us a sample? If the material is satisfactory, we would like to give you an order for a quantity

Very truly yours, Thomas A. Edison Consta. Bort.

By agy

December 12th.

W. S. Andrews, Maq.

Fall River, Eass.

Door Sir:-

de have your letter of the 6th, inst. requesting us to order four more plus saltenes for bank of test lamps, which we have done.

In repard to pulleys on the "S" machine, this dyname is $\frac{2a}{n}$ run in connection with a 0.2×12 engine, which must have a 10° pulley. If we use 12° pulleys on the "S" machine, the Armington a Sims people would have to put a 37° pulley on their 9.2×12 engine, and as the 47° is their standard pulley, we do not wish to make a change.

Yory truly yours,

Thomas A. Edison Constn. Dept.

au

December 13th. (

A. B. Chandler, Esq. Prest.

Fullor Electric Light Go.

Union Square, City.

Done Siri-

Di you ascortain about Smith's wagos? Floaso givo me

. Yory truly yours,

Jan

Dec. 12th,

Prank S. Marr, Esq. Tres.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

We beg to enclose herewith statement showing the amount due us at the present time by the Sunbury, Co. It is chiefly made up by the balance due on contract, the other items are for wire, and some small fixtures, which we send at your request.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't,

y QO

Surbury

December 13th.

Frank S. Marr, Coq. Treas.

Sumbury, Ponnal

Doar Sir:-

In relation to your latter of the sth. inst., in which you state that the belt you are using on one of the sunbary engines shows signe of siving and should be replaced, and that it was only jut in service temperarily, we beg to say that we cannot understand why the belt should have given out so soon, nor have we any recollection of it having been placed there with the understanding that it was to be reserved and another one substituted.

Our Superintendent, so Rich, states that the belt was respliced at Sunbary and that the work was will done. It is exactly the sump article that we are using in commection with other installations, which latter are giving per feet substraction.

Very truly yours,

Thomas A. Edison Constn. Dept.

es aog

December 12th.

Col. C. Goddard,

care Time Telepraph Co.

Temple Court, City.

Dear Sir:-

We bed to enclose herewith our estimate No.07, A for the erection of a Central Station Edison Ricctric Jirht Plant at San Jose de Guatamals of 400 large especity of 1s candle power each, and amounting to \$23,445.01

We also send you map of San Jose de Chatamala with the

Vory truly yours,

Thomas A. Edison Constn. Dept.

В

avy

Enclosures

December 12th.

Charles T. Hughes, Esq.

Poughkoopsio, N.

Door Sir:-

We beg to enclose herewith our estimates Nes. 77, 77, A and 77, B, for the erection of an Edison Electric light Control Station Flant at Pouhgkeepsie, New York, and amounting to \$ \$23,040.49-\$40,007.43 and \$35,765.03, together with their attended maps.

In relation to astimate No.77, by reforring to the Street Installation, you will see that the district we propose wiring, in the event of his estimate being sciented, covers 2,648 lights. Estimate 77,8 per 1,688 lights. By referring to the maps accompanying these estimates you will find the course of the street installation marked thereon. It will therefore be unnecessary for us to go into a lengthy comparison, as it only remains for you to agoose the one you consider best suited for the purpose.

In submitting those estimates it is of course understood that the local Company obtain all necessary permits for us to open strongs and lay our tubes, in accordance with whichever one they may accept, and we will not in any way be responsible for any failure to obtain those, which might provent our laying mains, as

shown on the map.

Trusting these will meet your requirements, we are,

Very truly yours,

Thomas A. Edison Constn. Dept.

By COM

Enclosures.

any Dan

and

December 12th.

John Boskin, Esq.

6 ledger Building,

Phila. Penna.

Dear Sir:-

We have your letter of the 11th, inst., and in reply beg to say that if the speeds of both dynames do not vary much from what they are set up at and the resistance boxes are proportioned so that the load will divide according to the capacity, they will run perfectly together. We run then this way in our central station plants.

Very truly yours,

90 C

Charles T. Hughes, Esq.

Morgan House.

Foughhoorsic, M.Y

Doar Sir:- .

We beg to enclose herowith plan of the central station we propose creeting at Youghloopaie, also estimate of daily running expenses and statement of probable profits on a \$40,000. capitalization, which latter shows an excellent percent for dividends.

We also enclose the remaining estimate for this plant,

Thomas A. Kdison Constn. Dept.

125

ass

Enclosures

December 12th.

3

Mossrs, Kont & Auerbach,

3 Broad Street, City.

Gentlemen:-

I understand the case of Smith vs. Edison is on the Calendar and will be soon reached for trial. I desire to associate with you in the suit En J. C. Tealinson. You will be good enough to allow him to examine all the papers, and consult with him as to the conduct, management and trial of the suit.

Vory truly yours,

20

December 13th

W. S. Androws, Esq.

F. O. Box 565,

Fall River, Eass.

Dear Sir:-

We have your letter of the 11th, inst. in reference to the bolts for driving the two "Y" dynamos being too long.

The reason that those belts are of improper size is that the dyname has been set 11^34° too near the engine, and not in

accordance with our plans, which say 10' from conter to conter.

Would it not be possible to move those dynamos back 11340

Yours truly,

Thomas A. Edison Constn. Dopt

Зу

Leen

December 13th.

E, H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

To have your telegram of yesterday instructing us to

In this connection we ben't to say that we always use a principle whom an U 2 x 10 engine is driving this machine.

At the Pour Street station in this city we have run a 14 2 x 13 engine at 350 revolutions for seventeen consecutive days with perfectly satisfactory results.

The W 2 x 10 engine at lawrence would have to be run at shout 325, if you use 12° pulleys, and we do not consider that 325 revolutions per minute is too light a speed for this small engine, when we have obtained such results as above stated from the 12° x 13°. Purthersore, if you use 10° pulleys you will have trouble by the belt aliphing, inassuch as it does not form as moud a contact with that size of fulley as it does not form as form you will desire to use 10° pulleys we shall be glad to send them on immediately you sayse us, but we consider it withsable to mention the above facts before filling your order.

Thomas A. Edison Constn. Copt.

...

Edison Machine Works

104 Goerck, St. City.

Door Sir:-

Roplying to your letter of the ligh, inst. wherein you state that it would be advisable to have a complete set of drawings for the Straight Line Engine. We beg to say that we have a comploto set made, and the letter sent you stated that they were making the patterns.

Yorym Truly Yours,

Edison Machine Works.

December 13th.

Porsonal.

W. S. Androws, Esc.

Fall River, Hass

Doar Sir:-

Can you give us any idea as to when the Fall River station will be ready to start? We are nowing that there is a quantity of electrical material which has not yet gone forward, but if you can make a start and introduce those fixtures afterwards it will be of yory great service to us financially.

We presume you have heard nothing from he Rich as to when Tiffin will be ready for you men. We have to-night asked him this question, and will adrise you upon receipt of his reply.

Thomas A. Edison Constn. Dept.

Single Cons

3

Documber 13th.

W. C. Smith, Esq.

542 Pearl Street, City

Dear Sir:-

Could you possibly come to this office to have an interview with me semutime to-day. Not me know by bearer what time we I may expect you, in order that I may be in when you arrive.

Jaky

W. S. Androws, Esq.

Box 565 pull River.

Mass.

Doar Sir:-

We know your letter of yesterdays date in regard to williamsport and newberg, we wired you on the 11th, institut there were 4 feeders at Howburg. And yesterday we sent you a telegram, stating that there were 5 feeders in the Williamsport Installation. Since sending the latter telegram, we are in receipt of a letter from the Williamsport Co. stating that they have not yet secured a lot, and asked our indulgence until we hear further from them. In view of this fact we wired you this morning, to do nothing to Williamsport material, whill you were advised further from this effice. We will send you the information you desire at the carliest possiable moment.

Very Truly Yours,

Thomas A. gdison, Constn. Dep't,

Rı

December 13th.

W. D. Rich, Esq.

Hazloton, Fenna.

Doar Sir:-

Can you tell us when the Tiffin station will be ready To for our ejectrical staff to commence work on the inside wiring?
We would like to start them on this work at the earliest possible moment. Will you kindly send us a jetter stating exactly the condition of the advancement of the central stations at Mazleton, Mt. Carmed and Wellefonte.

Yours truly,

Thomas A. Edison Constn. Dept.

.

200

December 13th.

W. D. Rich, Esq.

Hazleton, Fenna.

Don't Sirt-

tion, one marked "A" having been propared from the Setch you sont
us giving the details of your proposed arrangement, and the other
marked "A" is one which has been propared in this effice.

By referring to these plans you will see that both buildings are exactly the same size, and the the same capacity of plant is obtained without increasing the length of either building. Were we to adopt the plan which you sent us and put in the engine and boiler (upon which we have made a cross) it would be impossible for the engineer to attend to his engine and look after his steamy We have marked with the letter "A" on our plan the possitions of the boiler and engine which we now propose to install, and by reference to same you will see that it is a much more convenient arrangement than the one you suggest. The only difference it makes in the interior arrangement of the station is to reduce the length of the office from 13' to 11' 4". Mr. Andrews' brings his wires in at the skylight, and you will see that there is plenty or room for electrical apparatus along the walls of the building and away from the dynamos. We therefore think it desirable that you

should edopt this plan, and shall be glad to have any comments you may wish to make upon it.

Very truly yours,

Thomas A. Edison Constn. bDopt.

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Elicioparos.

Doc. 13th

3

W. D. Rich, Esq.

'edro Ddison Electric Ill. Go.

Hagolton, Ponna.

Dear Sir:

We have your letter of the Oth, inst. in regard to build plan of Middletown and Pique. We believe that this style of setting is to be used only where Mituminus Coal is burned, we note your objections to this setting however, and shall be glad to have your use your own judgment as to the way in which it should be done.

Very Truly Yours,

Thomas A. Edison, Constn. Dopt.

Ву

on, const



Docember 13th.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the lith, inst in regard to the extension of the Tiffin plant, and during the past few days have received all your telegrams urging upon us the necessity of shipping the material at once.

Your ideas as to the arount of work necessitated by this extension are altogether too small. It will be impossible for us to obtain the copper under two weeks, and a view of this fact we have wired you that we cannot keep our non there, as we understand from our Superintendent that all the pule lines at Tiffin will be finished on Saturday next.

We have wired you to might that the cost of this extension will be \$3,760.17, and we beg to knelless herewith our estimate for performing the work and supplying the material. Upon its acceptance, we will immediately take active steps to make the desired addition to your flast.

yr Rich is altogethor mistaken when he states that it vill not increase the cost of fooders, who extendion necessitates a new feeder and consequently additional electrical appearatus in 2

the inside of the station

Vory thuly yours,

Thomas A. Edison Consth. Dert.

12.

Enclosure

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H. C. Bolknap, Esq. Treas.

High) and hational Bank,

Rew Burgh, N.Y

earSir:-

We have your letter of the 12th, inst., asking us for a list of prices for which we will furnish tubing and wires for sorgice, and in reply we bek to seate that we will supply you with this material at cost price.

The way the Fall Haver and lawrence Company did was simply to give us an open order to supply them with as many Services as were necessary, and we billed the material to them at the rate as stated above.

If you will give us a similar order, we shall be very glad to furnish you with whatever services you require. They containly should be jut in at once, as it will save a great deal of labor in the future, when you might justify have to contend with heavy frost.

Yours truly,

Thomas A. Edison Constn. Dept!

By &

necember 13th.

Mossrs. Bergmann & Co.

202 Avenue B, City

Door Sirs:-

In relation to the attached letter from measure. Forever t weighten, do you not thin it would be a paying business for you to carry a stock of say 1,000 lbs. of this material, for the jurpose of supplying our numerous central stations with what they required. They would consume considerable in the course of a year, and innamed as you could purchase it for fifteen contral pound and soll it for twenty five cents a paying, the enterprise yould remit good profit. Let us know if you will do this.

Yours truly,

Thomas A. Edison Constn. Dopt.

aces

Enclosuro.

December 13th.

Paul D. Dyer, Esq.

Tremont House,

Galvoston, Toxas

Door Sar:-

We have your interesting letter of the with, inst., and in relation to your obtaining of tions on lots we think it would be a good idea for you to get exact sixes and prices of as many lots near the center of each term as you can.

In regard to the amount y a are paying for your expenses at the present time, if you will lot us like how much it is in encours of the allowance made you, we shall be very glad to credit your account with the difference.

You have apparently missed sending us a portion of your letter or clse you have forgotten to sign it.

Have you over received the new form of special report,

Mn Insull sailed for Kuropo yesterday to be gone until the latter and of January. We Fromune you received his latter talling you to go home for christmas.

Yours truly,

Thomas A. Edison Constn. Dopt.

By au

Docombor 13th

3

S. B. Eaton, Esq. Prest.

Edison Electric Light Co.

05 Fifth Avenue, City.

Doar Sir:-

I have the pleasure behand you herdwith account amounting to \$7,700.74, Being amount one my Construction Department, also account amounting to \$1,112.00 for sundry amounts paid by me on the light Company's account.

In addition to the above there is the amount expended by me on electric railroad experiments, for which you alroady have my account, assuinting to \$36,511.66, and also about \$35,000 expended by me at the Edison Machine, works in improving your dynamo machines, with the result of decreasing the cost on same of the types of dynamos about twenty five per cent, and increasing the number of lights obtained from the hackines about forty per cent.

with relation to my relified experiments, income as the inventions in connection therewith have been transferred to the Electric Hailrond Company, I presume my accounts in relation to this matter must stand every although by stating this I wish'it to be clearly understood that I expected that I have a valid claim

M

against the Edison Electric light Company for the amount I have

As to the cest of the dynamo experiments, in consideration of the kindness shown by the light Company in carrying my
stock for me, it is not my intention to ask them to redmburse me to
the amount referred to, more especially as the rendering of account
of this character is usually the cause of great irritation.

In this connection I may mention that I can now experimenting with
the object of increasing the capacity of the central station dynamo
but innamach as my means are limited I cannot conduct the experiments on any such scale as the importance of the matter would
warrant, and I would urge upon your birectors the necessity of
placing at my disposal \$30,000. For this purpose. Of course it is
very difficult to estimate the exact cost of such experimentation,
and I mention this amount as "S'limit and not as giving an indication that the experiments would cost as much.

I shall be glad if you will arrange to pay the small necount due (\$1,116,60), and my Construction Department account (\$7,700,74) at an early date, inhammen as the latter must of necessity receive additions or deductions from month to month.

I would suggest that the payment of \$5,000, on account

be made immediately,

very truly yours,

Ja.E.

Enclosuros.

December 13th,1883.

F. S. Hastings, Esq. Treus.

Dear Sir:-

In relation to the attached note, under date of November 19th, for %3,000., payable to days from date to our order, please make some payable to the order of Yhomas A. Edison, and debut our account with the amount.

Very truly yours, The Edison Machine Works

883-12-13

lac. 13th,

J. F. Bunn, Esq. J. P.

Tiffen, Ohio.

Dear Sir:-

We have your letter of the 10th, inst. in reference to wiring. We are of the opinion that you have made a great mistake by pursuing the course suggested by Mr. Stuart. Our experience has been, that it is a fatal error for the local Company to have anything whatever to do with the wiring.

In regard to lighting blocks, 44, 40, 49, and 50, we to day are in receipt of a tologram from Mr. Stuart, asking us to light blocks, 44, 46, 47, 40, but he makes no mention of block 50, we'll send to night an optimate for this work, in accordance with Mr. Stuart, telegram and if the sum is satisfactory we will order the material and have the work commenced without delay. You must understand that it is a very unsatisfactory thing to do work of this kind, without having an estimate accepted in the regular way. We have no doubt whatever but that our bills would be satisfactory, and accepted when presented to you, if we were to do the work upon that bases of understanding. But in our much as it is not the regular way of doing business.

we prefer to submit an estimate, and upon its acceptance we will proceed to make the desired addition to your plant.

Very Truly Yours, Thomas A. Edison, Constn., Dep't,

December 13th.

Spencer Borden, Esq.

P. O. Box 3311,

Boston. Mass

Doar Sir:-

We beg to achowlodge reposit of your favor of the 11th.

inst., and in reply would call your fatisation to the fact that

when you were in kew York last Wordester was one of the towns of

which you made a memorandum that you were to attend to in regard

to obtaining options on lots. In order that it maynot again

oscape your memory, we send you by this mail another chart of this

town marked with a circle, within thich it is desirable to obtain

those options. Upon receipt of this information, we will prepare

and submit estimatos.

Owing to the pross of with, and also on account of having to re-model the gaverhill estimate, we have not up to this writing been able to dispatch it, but if will be forwarded to you to-morrow man Portland we will send you early next wook.

Yours truly,

Thomas A. Edison Constn. Dopt.

1111

Doc. :13th.

W. H. Winant, Esq.

care Armour Bros. Banking Co

Kansas City. No.

Dear Sir:-

In further reply to your latter of the 4th, inst. we beg to say that we will respire a lot 50 x100, for Central Station purposes. As the ground within the red circle on map sent you is so valuable, we would suggest as the next best point, to obtain g lot the morthern portion, of blocks 49, and 49, and blocks 5, 7, 50, and 514

we are very much obliged for the information you guve us in reference to jumning our pole lines, and we send you this morning another man, which is marked in accordance with your letter and we shall be glad to know if the same meets with your approvat. We also seek you another paper, which his been marked with lines slowing the processed course of underground conductors, in case this class of conductor is considered more satisfactory than over head wires. We would like you to examine this churt, and give us information as to whether permiss could be obtained for opening up the streets upon which we project to run. In connectin with the above, we should be glad to hear from you as

hime we remain

oc. with

Jumes a Balan Could Dept.

Anneas City: No.

oner Sir:-

In curtifying apply to your latter of the stle inches on come to may the may that we will empty a lot so when, for fourthal starting purposes. As the ground within the red circle on the respective to the continuation of the points of the fourthern portion, of blocks thank of the the portions portion, of blocks thank is and micely to be and all

. To are very engly obliged for the inferention you paye

us in reference to municipy our pain lines, and we send you this merening another many which is marked in accordance with your letter and we shall be gift to know if the same work with your approvant. We allow the marked with the pass affected the process of the conductors in the same affected the process of underground conductors, in this class of conductor is conductor and more shalloctory that over head wires. We would like you satisfactory and give us information as so whether promise could be obtained for opening up the streets from which we provide could be obtained noted in with the chove, we thould be placed to have nect in with the chove, we thould be placed to have nect in with the chown, we thould be placed to have nect in with the chove, we thould be placed to hear from you as

18,03-12-13

ecember 13th. 3

W. S. Androws, Esq.

P. O. Box 505,

Fall River, Mass

Donr Sir:-

We have your letter of the 13th, inst. in reference to pressure indicators, and in "oply bog to say that we differ with you very materially.

It is the easiest matter imaginable to keel this adjusted and we think that the more you work with them the better you will like them. Mr. Sprague entertained the same ideas in regard to them as you do when he first saw them, but he has since become thoroughly converted. We think you should wait and work with them awallo before you write them down.

In regard to having the conductors for inside work sent.

out in straight lengths, we can have any wire which has not yet

boon shipped cut in accordance with your letter, but if it has been
shipped it would hardly pay to bring it to kew York, have the

Amsonia people straighten it and return it to its destination,

In relation to running the 612 x 10 angine at 300 revelutions, we have at our Pearl Street station in this city run a 'la'2 x 13 ongine for sevention consecutive days at 350 revolutions.

December 14th.

J. F. Bunn, Esq.

Tiffin, Ohio,

Dear Sir:-

we beg to acknowledge receipt of your letter of the light, inst., and in reply would say that we are very much gratified to learn that you have made arrangements with outside parties for wiring. In your management of this the only point which does not meet with our approval is your having offered a premium to people as an inducement for them to take the light. We really think you will have cause to regret this.

Yours truly,

Thomas A. Edison Constn. Dopt.

By 0 9

Docomber 14th.

3

Frod Catlin, Esq.

105 Broadway, City.

My Doar Catlin:-

Yours received. Johnson is fixing up a hose and a dynamo giving 2,000 volts to give an exhibition. He has measured the water stress and finds it about 550 chms, 2 2 section nor foot.

Very traly yours

a07

Shanokin

December 14th. 3

7. S. Androws, Esq.

Fall Rivor, Mass.

Doar Sir:-

She Mison has requested as to refer the attached latter in remark to regulators for the open house at Shamolin to you, with the request that you furnish drawings for these devices at the carliest results assent.

Yours truly,

Thomas A. Edison Constn. Dort.

By QQJ

Enclosure,

Docombor 14th.

Electric Tube Co.

65 Washington Street, City

Dear Sir:-

We have your lotter or the lith, inst, withdrawing your bids for the streetingallation in connection with the following points, namely, Martford, Mayorhill, Uties and Governors Island.

In rolation to haverhill, we were on the point of sending an estimate out when we received your letter withdrawin; your bid. We shallthererow be glad to receive from you atthe earliest possible moment another statement showing what you will charge to do this work, in accordance with the plans you already have.

Vory truly yours,

Thomas A. Edison Constn. Dept.

December 14th.

William Schwonl, Esq. Prost.

Mt. Carmol, lenna.

Door Sir:-

In relation to the extension of the pole lines at 0t.

Carmol and the alterations which you desire to be made in connection with them, we wired you this afternoon that the cost of making this change will be 3041.07.

We beg to enclose herewith our estimate No.78,P for this work, and upon its acceptance we will order the additional wire and other saterial and have the lines erected in acceptance with same. We also send blue print showing the projected alteration of the Kt. Carmel pole lines.

Yours traly,

Thomas A. Edison Constn. Dopt.

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a.07

Enclosures

December 14th.

9

John Hoskin, Esq. :

G lodger Building,

Phila, Fenna,

Doar Sir:-

In reply to your lotter or the 13th, inst. I be: to say that it will require two resistance boxes, and they should be connected so that both will move together, but detachable.

Yours truly,

Ja. 2

H. C. Mc. Cormick. Eso. Prest.

Williamsport. Ponna.

Doar Sir:-

Willlyou kindly lot us know if we can cross with noles through the center of blocks B and C to the northern alleyin block

We received your telegram of this alternation giving location of central station,

We hope to-merrow to see Mr. T. Of Detwiler, from whom we had a tologram sating he would be in New York late to-night with the papers in connection with the Williamsport contract.

Very truly years.

Thomas A. Edison Const. Dept.

ecombor lith

John Oft Esa

202 Avenue F, City.

Dear Sir:-

Have you ever made up any more of that duplicating ink?

Yours truly,

Jae

December 15th.

The Armington & Sims Co.

Providence, 9. T.

Dear Sira:-

We beg to inform you that on the ula x 10 angine sent to rall River one of the fullays, we presume the regulator fullay, has only a 7° face, while the other hazan 8 2° face. As we drive from both fullays of this engine and use is belts in connection with them, it is necessary that both should have it a face, and it will therefore be necessary for you to furnish us with abother pallay for this engine in accordance with the above.

Yours truly,

Thomas A. Edison Constn. Dept.

By Q_1Q_1

Please hung the Bill forward To E

December 15th.

George P. Cross, Esq

Paserag, R. I.

Doar Sir:-

We have your letter of the 12th, inst., and in reply bon to say that hr. Edison would like to have you send him your

photograph.

rs truly,

Pair Sec

Docomber 15th.

b. M. Osborne, Esq.

Auburn, N.Y.

Door Sir:-

Will you be kind shound to send us the exact dimensions of the lot which you note on the chart of Auburn as the Sisson lot.

Thomas A Edison Constn. Dopt.

1 ao 0

Personal.

December 15th.

W. D. Rich, Hog.

Masleton, Jenna.

Door Sir:-

ion is of the pole line work done at Tiffin by Hiblor. Is it all good substantial work and what idea have you formed in connection with that bank of the installation.

Very truly yours,

76.E.



December 15th.

V. D. Rich, Esq.

Hazleton, Penna

Dear Sir:-

We bug to confirm our telegram of yestermay's date stating that the Williamsport confract had been closed, and under same cover we send you a plan of the Williamsport station, also a sketch showing its position in relation to let. You will notice that there are send alterations on this plan in connection with the stack. The dimensions as shown are correct, but the portion referred to is not drawn to scale. We will in a day or two send you another man drawn to scale.

We also send you a copy of our estimate, and wish you would be kind enough to fill out as accurately as you can the actual cost of each item.

We cannot as yot give you any information in regard to
the number of poles you have to secure, as the course of the conductors is still under consideration and will not be finally decaded until next week. It would be as well for you to go to
Williamsport at once and arrange about the material for your
building, and we will furnish you with the other information at the

earliest possible moment.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

ву 00

Enclosure, r.

December 15th. 3

Frank B. Rac. Esq. Supt.

Commercial Telegram Co.

18 Broadway, City.

Doar Sir:-

In reply to your lotter of the 19th, inst, we beg to say that we will give you sevention cents appound for the wire you specified therein.

Please advise us if you will accept this offer.

Yours truly,

Thomas A. Edison Constn. Dept.

---/

December 15th.

James S. Reager, Esq.

care Tiffin Edison Electric Illg. Co.

Doar Sir!-

We have your letter of the 1sth, inst., and in reply bor to say that we sincerely revert the dissippointment you have met with in connections with discounts from Mossrs. Bergmann & Co. We should be very glad to do all in our power to assist you in obtaining the discounts you desire were it not for the fact that we have no voice whatever in the management of Mossrs. Bergmann & Co's affairs. Our only connection with them is that we order material from them for our central station work, and we never have occasion to order such material as is used for housewiring and fixtures which is always supplied by Mossrs. Bergmann & Co. to the local parties who do the wiring.

If you will allow us to make a suggestion, we would say that we think you would be perfectly justified in calling upon Mr. Shaw to make good his guarantee, and by this means reduce the cost of the fixtures to the point desired.

Again regretting our inability to assist you in the matter, we box to remain,

Yery truly yours, a Edung low

This a Edien bush sope

ocombor 15th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Door Sir:-

We are in receipt of a letter from our Chief Electrical Engineer, in Andrews, and in referring to a bool of questions which we have gotten up in order to examine engineers desiring to obtain positions with us, he states that in each duse the said applicants for positions state that beiler should be caulted cold and that the A. S. engine should have a small lead. This is in direct opposition to the views we have entertained in regard to those subjects hitherto, and we address you in the matter that we may obtain you very valuable opinion.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Docomber 15th.

Frank S. Harr, Esq. Treas.

Sunbury, Ponna.

Dear Sir:-

We have your letter of the lith, inst., and in reply we wish you would very kindly ask your engineer at Sumbury to send us an exact report as to the frouble he experiences with the belt in question.

We are pleased to know that you have made arrungements

Very truly yours,

Thomas A. Edison Constn. Dopt.

QD:7,

December 15th.

lessrs. Herris & Rubinson

. Hartford, Conn.

Dear Sirs:-

We ben to notify you that we taken withdraw all osts mades we have made up to this writing for the installation of an Risson Electric light Control Station Plant at Martford, Conn.

Vary truly yours, Thomas A. Edison Constn. Dapt.

ву 0,0,7,

W. J. Jonks, Esq. Hanager,

Brockton. Mass.

Dear Sir:-

In regard to supplying you with two 400 light dynamos for the procession and taking back one woo light dynamo, we beg to say that we will furnish theme two machines with regulators, not them up, furnish and put in switches and do all work in connection with making the alteration for the sum of \$1,200.

This bid, however, does not include any change of main shaft or pulloys of ongine. We believe you are in consumication with hears, Armington & Sins in Mard to this latter change and that it is your intention to do that portion of the work yourself.

We enclose herewith a plan showing the positions of the degine and dynamos after the change is made. If you desire any further details in connection with our estimate we shall be glad

very truly yours,

Thomas A. Edison Constn. Dept.

Ву

nelosuro, i.

December 1.161

W. S. Androws, Esq.

F. 0. Box 505,

Fall River, Hass

Door Sir:-

We have received your communication in reference to his George A. Hefmeyer, and the book containing his unswers to questions in repart to engines and believe came to hund to-day.

He appears to be fairly well posted, but yet will have to learn considerable before he will be thoroughly competent.

Will you ploase lot us know his ago, where he lives and what salary he is at the present time in receipt of, also his present duties and what salary does he expect to get from us, also what is his nationality?

We return to-night the book wherein he answers the questions referred to.

Yours truly,

Thomas A. Edison Constn. Dopt.

a 0,0

1883-12-15

December 15th, 1863.

Gustav Soldan, Esq. Supt.

101 Guarch Stroot, Gity.

Dear Sir:-

On the 18th, inst. we referred to you a letter from the Mestern Edison Light Company in remard to furnishing them with the new style commutators for "F" meschings, and we asked you to send us the price of this commutator and state at the same time whether you thought we could concede to their wishes. We to-day rind that you replied directly to the Mestern Edison Co. In ruture when we nak you to give us information, will you be kind enough to reply to our request. It is impossible for us to maintain the correspondence of this office unless we are allowed to answer communications which are addressed directly to us.

Yours truly, The Edison Machine Works,

Jae

Docombor 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Goord Street, City.

We beg to sny, in reply to your letter of the lath, inst., that we shall of course have the drawings of the engine which the Straight line Company are now making patterns from It may be well for you to go up to their place some time in January.

Yours truly,

The Edison Bachine Works,

11.5 Ja

December Afrh.

E. li. Jord, Esq. Treas.

lewronce, tass.

Dear Sir:-

We beg to ash a whothe with meany thanks receipt of your letter of the lath, inst, emel. sing effect for 34,000, on account of the larronce installation.

In remain to pressure indicators, we hope in a few days to be able to supply you with the improved style of indicator which has lately been setten up by in balson. These are perfectly reliable and will obviste the difficulties you meet with at the present time.

In remard to using our fairly, we wish you would prepare an exact statement or all the joints wherean we have been at fault, and which you consider should be righted by ur. We will then be able to take proper action in the matter.

Very truly yours,

Thomas A. Rdison Constn. Doit

RM

ady

December 15th.1883.

Gustav Soldan, Esq. Supt.

104 Goerek Street, City.

Dear Sir:-

neferring to the attached letter from Mr. P. E. Clarke, of the lawrence Company, will you please let us know if the annature which burnt out at the Pemberton Company's Hill was defective and if the burning was due to such defect. Please answer this question to us, as we waish to write Mr. Claske on the subject ourselves.

Yours truly, The Edison Machine Works,

By Ja, E

Enclosure, 1

Porsonal.

December 15th.

3

I. C. Walker, Ecq.

Tiffin, Chic.

Dear Sir:-

Will you be kind onough to let us know what your opinion is of the pole line work down at Tiffin by Liblor. Is it all rood substantial work and what idea have you formed in connection with that part of the installation.

Vory truly yours,

 t^{j}

ecombor 15th. 3

I. C. Walker, Esq.

Tiffin, Ohio

Doar Sir:-

We have your letter of the 13th, inst., and in regard to the lumps which judge bunn has requested you to have sent forward, we have to-night written judge bunn to send us an official order, so that the established routine of our business may be sustained.

Yours truly

Thomas A. Edison Constn. Dept.

Ε,

(100 h

Docombor 15th.

Charles Y. Maite, Esq.

102 John Street, City.

Dear Sir:-

In reply to your letter of the 14th, inst., we beg to say that on account of the delay which has taken place in connecting with supplying us with the sulphate of zinc ordered by Mr. Edison, we were obliged to place an order elsewhere.

We shall, however, be filed it you will send us a sample and also send See lbs. to Thomas A. Edison, care Pergmann & Co., 2002 Avenue B, City.

Yours truly,

Thomas A. Edison Constn. Dopt.

By agn

W. S. Androws, Esq1

P. O. Box 505,

gall River, Mass

Doar Sir:-

We have your letter of the 14th, inst, in regard to the belts used in connection with the "Y" dynamos at Fall River,

In regard to commenting these bolts instead of riveting them, we adopted the former method of contact in order to step the noise, but insummed as our experience with essented belts up to the present time condesses their use, we will in future have them riveted.

The chemicals for Vall River were shipped either yesterday or to-day, and we are hurrying Borgmann & Co. on the meters.

In regard to carrying in stock at our contral stations a spare wrist pin stra; and hearings for the Armington & Sime' on ines, we will communicate with you later.

Yours truly,

Thomas A. Edison Constn. Dopt.

By a, O, J,

. [

W. S. Andrews, Esq.

P. 0. box 565,

Fall River, Mass

Doar Sir:-

In relation to starting the Fall River station, are you nware that br Edison desires to run this installation for about a day and a half without any lights shatever being cut in on the district. Dease send us a tologram stating when you will be roady to start, so that Mr Edison can go to Fall River Monday night if necessary.

Yours truly,

Thomas A. Edison Constn. Dopt.

Jouquaber 15th. 3 /883-/2-/5

Mossrs, Bergmann & Co.

292 Avenue B, City,

Doar Sirs:-

We bow to anclose herewith a letter from Mr. Androvs
which he sent to us for perusal with the request that we should
send it to you when we were through with it.

We consider in Andrews idea as to having an "A" and a "B" ampere meter a very good one. "Anald it not be advisable for us to whot these forms in future?

Yours traly,

Thomas A. Edison Constn. Dopt.

0,0,7

Enclosuro, m

Paul D. Dyor, Esq.

St. George Notel,

Dallas, Toxa

Doar Sir:-

We have your consumications of the 10th, inst.

We have to-day forwarded to Dallas the special report

In relation to the assumt which should be to your credit in this office, we are having the matter investigated and will advise you later.

Yours truly,

Thomas A. Edison Constn. Dept.

R

00

R. Young, Esq.

Sy Hancock, Street.

Boston.

Dear Sir:-

I have your letter of the 12th, inst, in reference to a position in my Laboratory for the son of Mr. Adolph Satro.

I regrot to state that at the present moment I have all the assistance in my laboratory that I can use, but about the lst. March I expect there will be an opening, when I shall be pleased to hear from you again in reference to a position for your ward.

Very truly yours,

3

E. Buchol, Esq.

201 Conti Stroot.

New Orleans, 1a.

Doar Sir:-

execondingly that a former letter which I wrote you has apparently miscarried.

The painting came to hand saidly, and I can assure you that I am delighted with it. It is hanning in my office at the present time, and I consider it one of the finest pieces of work that I have seen in a long time.

Did you not make some request in your former letter in relation to a Phonograph? If you will repeat this I shall be only too happy to attend to it.

Again regretting that the transmission of my thanks has been so long delayed, believe me to be.

Yory truly yours,

December 15th, 1883.

W. H. Dwelloy, Jr. Esq. Treas.

Fall River, Mass.

Doar Sir:-

We have your letter of the 6th, inst, in regard to the second "I" dyname supplied for the Flint Mills.

In regard to a hood on the aranture, it is not now our custom to supply hoods, and this one was consequently shipped with a canyass head. Ir, however, you desire us to supply a hood, we can make one and forward it.

Our Superintendent informs us that there were no parts of this machine missing at the time it was shipped, so that if any of the parts have not been received at the Plint Mills, they must have been lost in transit. The sachine which we sent you was not an old one. It would be impossible for us to supply our customers with old machines, imagnich as the moment a machine is completed it is sold and shipped.

Yours truly,

The Edison Bachine Works,

Ja E

S. B. Eston, Esg. Prost

Edison Electric Light Co.

as Pifth Avenue. City.

Doar Sir:-

We have the pleasure to enclose you herewith our estimato No.50 for the erection of an Edison Electric light Central Station Plant at louisville, ky, of 6,400 lumps empacity, and amounting to \$100,079.19, and we beg to call your attention to the fact that the Street Installation provides for 7,624 lights, or 1.224 more lights than the nominal capacity of the plant.

We also enclose estimates of daily running expenses and probable profits, and you will observe that the latter shows excollent dividends upon a capital of \$255,000.

In regard to your memorandan of yesterday's date, we box to say that it is not our custom to sign these estimates. If, however, you desire this one signed I shall be glad to comply with your wishes.

very truly yours.

December 15th.

Edison Co. for Isolated Lighting,

. Butchinson, Esq. Secty.

city.

Door Sir:-

we have made up to this writing for the installation of an Edison we have made up to this writing for the installation of an Edison Electric light Central Station Flant at covernors Island, R. Y. Yours truly,

Thomas A. Edison Constn. Dept.

a a o J

. Docember 15th.

Charles T. Hughes, Esq.

Morgan House,

Poughkoopsio, K. Y

Doar Sir:-

We ber to enclose herealth our estimate No.38 for the installation of an Edison Electric light Control Station Mant or 500 lamps capacity and amounting to \$10,103.24, together with map marked "A" showing the course of the mains and feeders in red and white lines.

You will observe that this estimate is for an underground installation, and that the conductors are for 558 lights,

We cannot send this estimate out without stating to you that we consider it one of the cheapest bids we have ever made for an installation of that size. Haverstraw is the most compact town we have yet had to doal with, and for this reason our estimate is a low one.

The few days we will sond you another estimate for a pole line installation, but as a permanent investment we should very strongly advise the adoption of an underground system,

At Piqua, Chie we are now installing a plant of 500 lights espacity, and the amount of the estimate is 310,031.49 You no doubt understand that the estimate in question was formerly sig. 676.40, but, owing to the Piqua Company being unable to run slong a cortain street, the lines have had to be changed, and necessitates the increase in the amount of the estimate. It is a pole line installation.

Very truly yours,

Thomas A. Edison Constn. Dopt.

-(100

Enclosure

cember 17th.

P. B. Shaw, Rsq.

Cincinnati, Ohio,

Door Sir:-

ve have your letter of the 13th, inst., and beg to congratuate you upon having at last secured a let at Middletown.

In regard to the new location saving considerable conductors and feeders, we beg to remind you that we already have our copper at Middletown for the conductors and feeders, based upon the assumption that the lot given us in the first place was to be purchased. Whe new location changes the size of some of these purchased, but to what extent we cannot at the moment tell, but we are having the figures made up, and if they accept our confract price, I shall of course lock to the Middletown Company to reimburse us.

We must protest against these lots being selected after our contracts are closed.

The outcome of the Fique and middletown business will be that we will have on our hands a lot of wire that we cannot use possibly for some months, which will necessitate our loosing interest on the munoy invested in it, which is a considerable item.

In regard to the buildings at Piqua and Middletown, we would say that our engineer in computing the cost of the Middletown building calculated upon patting up a brick structure instead on

frame, as is mentioned in the estimate. It is our intention now to erect a brick building at kindletown, but the price we quote for the Piqua building is insufficient to admit of our adopting the same course there. We will erect a brick building at Piqua for the same price as we charge for the Middletown building, namely, \$2,210., or \$800. above the contract price.

In regard to the progress we are making in Penns., we ben to say that the Mt.Carmel building is finished, except the inside, the Pollefonte building is in the same condition and the Maxleton building will have its roof completed to night.

We have done quick work in these places notwithstanding the fact that the local people appear to be unable to see it.

We will have an expert wireman in Bellefente in the course of a few days.

You had better advise us by wire of your decision in connection with the brick building for Piqua.

· Vory truly yours,

Thomas A. Edison Constn. Dopt.

By J α, ε,

December 17th

M. C. Trumbane. Esc

Easton, Fenna

Dear Sir:-

In relation to your jostal eard asking about my alloged electrified health indicator, I beg to inform you that I have no such invention, and that the device which is manufactured and sold as "The Edison Health Indicator" is, in my opinion a complete fraud.

Very truly yours,

Jas

December 17th.

James A. Blair, Esq.

Commercial Bank,

Tiffin, Ohio,

Door Sir:

We have your latter of Nevember 30th., and in reply bog to say that we were quoted macial rates over the Laclawania Past Freight line to Tiffin, and these rates were obtained for us by our freight broker, who get quotations from the Star Union Line, but as they were not us satisfactory as the former, we of course would not accept them. We would like very much to have been able to oblige you and ship our material by the Star Union line, and, at the time the subject was first brought up, we stated that if your company would agree to pay the difference between the Star Union rate and the special rate quoted us by the Jackawanna Line, we would ship by the route you desired. You of course could not expect us to do more than this.

Very truly yours,

Thomas A. Edison Constn. Dopt.

111

. "J.

comber 17th.

Mossrs. Bornmann & Co.

292 Avenue B, City.

Dour Sirs:-

We have your communication of the 15th, inst. in regard to sulphate of zinc.

In roply we beg to say that Mouses. Powers & Wolghtman
furnish sulphate of zinc which is far superior to that which
Mr. Chimnesh purchases. Mr. Chimnesh gets this material from Messrs
John & Pink. We ordered a large consignment of zinc from the
latter people which has proved absolutely useless, as it contains
a quantity of iron. It must be distinctly understood that you
will buy from Messrs. Powers & Weightman the chemically pure brand
and never change or try to get thesper stuff, as the chemically
pure brand is the only kind that you can use.

Woode not wish to guarantee anything further than that we expectively will jurchase our sulphate of sine from you, provided you feet as good a brand as can be getten elsewhere. Furthermore, we will instruct all local companies to obtain this material from you, and such instructions will be sufficient for you to control the trade.

Ploase let us hear from you as soon as possible, and

also inform us as to when we can place our first order with you.

Very truly yours,

Thomas A. Edison Constn. Dept.

tive.

Dog 19th

H. C. Bolkpap, Esq. Treas.

Edison Eloc. Ill. Co.

Newburg, N. Y.

Dyar Sir

will you kindly lot us know the exact condition of the Newburg building, we wish to approximate as closely as public the time when we can send our wiring experts tol commence work on the interior of the Station.

Voly Truly Yours,

Thomas A. Edison, Constn. Den't

December 18th

Doutsche Edison Gosellschaft, Borlin, Gormany.

Dear Sirs:-

tion to dynamos menog to say that our company here have stopped solling 25 light machines, as they find it does not have to send a man a great distance and have him remain there some time.

The 50 light dynamo is the lowest they soll, and we are not going to make any more 25 light dynamos, the price charged fou for the last 50 light dynamos sent, namely, \$250. F. O. E. Now York, is the lowest figure I can place this machine at. It seems to me that you ought to be able to make them much cheater over there.

In regard to our accounts, I mailed you a few days ago a statement showing your indebtedness to me to the extent of \$2,500.05 Your remittance you mention in your letter of the 3rd. inct, namely, \$435, has not yet been received by me, but will I prosume come to hand in a day or so. This leaves \$2,101.95 still due me by you, and sawish you would yory kindly, upon receipt of this letter, send me a cable remittance for the amount, as the

2

prices which I gave on your material will not admit of my carrying the accounts so long on my books, and I require to use the money.

Vory truly yours,

20%

ecember 17th.

W. L. Garrison, Esq. Treas.

boston, haus.

Doar Sir:-

Referring to our letter of the 5th, inst., with which we enclosed statement of account against your Company, will you vory kindly send us a check for the amount, namely, \$1,837.42, as we require to use the money very urgently. We should like to receive this check before priday next.

Very truly yours,

Thomas A. Edison Constn. Dert.

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December 17th. 3

Messrs. Harris & Hobinson,

Hartford, Conn.

Door Sirs:-

We have your letter of the 15th. inst., englosing a notice of a meeting to be held in panbury this evening. We trust you will advise us of the result as this meeting will have in connection with the acceptance of our estimate, as of source you understand that to-marrow it expires, and we would like to furnish you promptly with fresh estimates, providing you need them.

Yours truly,

Thomas A. Edison Constn. Dopt.

By 207

Docomber 17th.

9

F. S. Mastings, Esq. Treas.

Edison Electric Tight Co.

City.

Door Sir:-

Referring to the attached correspondence from He Dwelley, we bog to say that 150 sixteen candle lamps would be plonty to send on to Fall River at the present time. If these local companies were permitted to do so they would put in sixteen candle lamps everywhere, whereas not one out of every ten could tell the difference between the ten and sixteen candle power lamp were they placed side by side. They should not be permitted to distribute sixteen candle power lamps over the Pall River system as they please, and we strongly advocate only supplying the consumers with a limited number.

Very truly yours,

Thomas A. Edison Constn. Dopt

By aoy

Enclosure

Documber 17th.

James Farris, Esq. Secty.

Pollefonte, Penna,

Doar Sir;-

We have your letter of the lath, inst, in regard to a wireman, and in reply bog to say that we hope in a few days to have our expert at Bollofonto to tale charge of this work. in the interim you might select a local plumber whom you think would be competent to take charge of this work, after being properly coached by our export. This would avoid any delay in the seloction of a man after our expert arrives in Bellefonte. We presume that you understand that it is our policy not to have the local company take any part whatever in the wiring of buildings for the Electric Light. The parties who have their buildings wired will be responsible for the cost of same to the plumber. whom our export will teach to do the work. . He will receive all nocessary instructions so as to make a regular business of it, and by this means the local company will avoid any trouble with parties in connection with the non-payment of their bills for wiring and fixtures. This coyrse we have adopted in other places. and our experience has been that it is the only proper method of conducting that branch of the business. Were the local company to do the wiring, after they had supplied the customer with light, in a great many cases, the said customer would refuse to pay his bill for wiring and fixtures, intertaining the idea that the local company would prefer retaining him as a consumer of light rather than take the fixtures out of his building.

In regard to lemps, we shipped your order on Saturday.

Very truly yours,

Thomas A. Edison Constn. Dort.

By a05

Docombor 17th.

Charles P. Lyon, Esq.

Now American Notel,

Circloville, Ohio

Dear Sir:-

We have your letter of the 15th, inst., in regard to furnishing wax local parties with information. We treat you will not attempt to quote any prices in regard to an electric light installation. It is impossible to approximate the cost of an installation in any town with Earcty, and we profer our convassors to discuss these subjects as little as lossible.

We have pleasure in sending you by same mail the Bulle-

Yours truly,

Thomas A. Raison Constn. Dept.

December 17th.

Mossrs, Markle & Hell,

33 Congress Street,

botroit, bich.

Door Sirs:

Under some cover we send that a map of Grand Haven,
Hich. In addition to supplying us with information in accordance
with the annexed form, will you be kind enough to examine carefully the course of our proposed street installation, which is
shown on the map by red lines. If there are any obstructions,
such as trees, telegraph or telephone poles, which would prevent
our adopting the course we propose, we should be glad to have any
suggestions you may think desirable to make in regard to alterinitives. The red circle on the map shows that part of the town
within which it is desirable to obtain a lot, and the best location is a near the center of the circle as possible.

Vory truly yours,

Thomas A. Edison Comstn. Dort.

By

пy

December 17th.

M. C. Belknap, Esq. Treas.

Highland National Bank,

Nowburgh, N.Y.

Dear Sir:-

Will you kindly lot us know the exact condition of the Nowburth building, as we wish to siproximate as closely as possible the time when we can commonce work in the interior of the station.

Very truly yours,

Thomas A. Edison Constn. Dopt.

By . a.O.J.

December 17th

2

W. A. Croffut, Esq.

359 West 23rd, Street, City

Doar Sir:-

In relation to your communication of the 16th. inst.,

I hop to say that En Edison leaves town to-morrow evening for Fall River. He may return the latter end of the week.

Very truly yours,

1.9. P.D. c

New York, Documber 18th. 1883.

65 Fifth Avenue,

Dergman

My Dear Insull:

I should have written you last wook, but I thought it better to wait until one Saturday had passed before doing so, in order that I might give you, a history as to how I get through the "black day". On Saturday Borning I had \$4,500. in the bank altogether. I went down to Hastings and get \$1,000. from him, Out of this I paid kruesi \$1,000. and gave Bergmann \$700., as they were both very hard up. I paid the Machine works pay-roll and contracts together with our effice pay-roll, also not a Machine works note, and yesterday I was advised by the Germania that the \$3,000. note, and yesterday I was advised by the Germania that the \$3,000. note, which I get from Wastings lest Friday, had been discounted by them, so on Mohday merning I came out with \$4,346. in the bank, which will run me through all right this week.

hr Edison went to Fall River to-night, and the station is to be started to-merrow, and that means a remittance of \$20,000. from them. Mr. Edison will see that a check is sent to me promptly.

We closed the williamsport business on Saturday last.

As you understand we sent them the forms of agreement and one of those Mr. Edison signed before it left the office. The williamsport people closed the contract on the old basis, which was a point that Mr. Edison desired to avoid. The new canvass which we propured is ready, and they have a chart with the lines marked in accordance with this new map, and we are now trying to have

them substitute it for the old one. The matter will be decided in a day or two, and also in a day or two they will remit us the first payment, which is a matter of about \$13,000.

Immodiately after you left here, I wrote ugain to Lord for that remittance of \$5,000, and on Priday received a check from him for \$4,000., and he said he would remit the balance as soon as he get it.

I wrote to Garrison vesterday to send us a check for the S1,800, still due upon Brockton, and hope to hear from him before Saturday.

I have to meet about \$4,300. on Saturday, but will have no trouble whatever in doing so, as prospects are good.

CANVASSERS. Dyer has completed his canvass of Calveston and is in Dallas, and from that point he goes to Shorman.
Wilbur has completed Atlanta and is in Wobile, from which point he goes to Thoxyville. Cooke is still with Markie's Hall, and Lyon is just about through with his canvass of Circleville, Ohio, artor which he returns to Pennsylvania. I will see that your instructions as to the disposition of these canvassors after January lat. are carried out. We cortainly will require more help in this line.

There were some parties came up here from a town in Ponnsylvania near Register. Show had never been hear the town, nor approached any of the people in regard to lighting. The gentlemen of whom I speak had been around visiting Shumokin and

hamoly, 84,180.56, was paid upon the signing of the agreement.

about October 25th. two other payments of \$4,000. oach were made by
the Vall River Company, the same being the twenty per cent referred
to, and on the 27th. November bwelley sent us his check for Su,500.

which was a portion of the twenty five per cent that should have been paid when the installation was ready to supply light.

I will receive from Dwelley to-merrow a check for \$4,000., and this is the only payment that will be made on account of this installation until the 18th. January, when there will be \$17,128.00 due. You see by the arrangement made with these people that the greater part of the money, instead of being paid in when the installation was ready to supply light, does not come to hand until we have run it for thirty days.

Now in regard to our contract with the Amsonia, we own them on amount of wire supplied for Fall River \$4,950.20, and seventy five per cent of that amount is \$3,718.05, which consumes the \$3,000, that will arrive to-morrow. I do not yet know the amount that the williamsport people intend remitting. They owe us \$13,000, and I fancy it will be at least half of that. I shall go to Hastings to-morrow and tell him that I want a good remittance on account of the Marking works on Saturday, and that I simply must have it. I can pull through all right, but will have to give Babcock a wilcox & note to-morrow for the amount

I have a note due on the 12th, January for \$2,306. White the wo issued to Bergmann & Co. I have another on the 24th. for \$1,240., and there is nothing then until the 17th. Pebruary, at which time there is a small one for about \$520. If I bring t Babcock & Vilcox' note in about the 1st. Pebruary it will be all right, as at that time we will have been in receipt of the last payment on account of Fall River, and can meet it without troubl

Tiffin station will be ready to start up in about two weeks, which will remit a payment of 30,000. from that source. NT. Carmal will be ready to start at almost the same time, so you see as long as Mr. Edison is within reach I will not got laft in the money line. It will be a very fragid day when he leaves me in the same box as he did last Saturday, as I shall take care I have planty of checks so long as there is money in the bank to sustain them.

On the 19th, inst, we billed am the Societe Industrielle with S787. For material shipped them, and they new owe us \$1,332.21 We billed the London Company with \$450.50 on the same date, which makes the amount due us by that corporation \$820.59. This information I believe you desired transmitted to you.

In regard to the Williamsport, I forgot to mention when speaking of it that we will not issue any orders in connection with that plant until the full amount of the first payment has been made. We have a full list of the stockholders, and are to-flight going through brandstreets to find out how they stand,

CANVASSERRY I think I told you in my last letter that Cooke had finished with Markle & Hall, but we were requested by them to allow him to remain a while longer in order to complete a canvass of Adrian, Mich. He will be through there to-morrow, and as the light Commencanxious to have a report on Meriden, Conn., we will send him to that point, after which he can canvass Rendout and Kingston, N. Y. Lyon is at Pottsville, Penna. Dyer is on the point of leaving Dallas for Sherman, and Wilber is making a canvass of Knoxville, after which he goes to Danville, Va.

MACHINE WORKS. It is pretty hard work to get Soldan to turn out machines quickly, but we must give him credit for having made a good shipment on Monday last. He forwarded the Bellefonto. Mazleton and Mt. Carmel machines on that date, which were two "Y's each for the first and second places and two "S" nachines for the last. The Newburgh machines go forward on Friday next. Lawrence Company have ordered from us two more "is machines and another 14 2 x 13 engine. The former were shipped to them on . the 22nd, inst, and the engine goes forward to-morrow, together with the bedplate and washers. The bolts are already in the foundations which Rich loft propared. I received to-day a letter from Tord, which is to say the least amusing. You no doubt remember what a disjointed correspondent he is and that it is almost impossible to gather anything from his lotters. He kopt harping so long upon the string of "treat us fairly", that I at last wrote to him asking him to submit to us a statement of all the points wherein he considered we had failed to live up to our contract. In his letter received to-day he states that we must consider them (the Lawrence Co.) imbeciles, and complains about us having supplied him with 10" bolts, about the delay to his dynamos and the tardy manner in which his meters are being supplied. In reply to Mr. Tord. I informed him that we were using 10" belts in the same connection with other installations, where they gave porfect satisfaction, and we saw no reason why they should not prove satisfactory at lawrence. I stated that we sincerely rewested being unable to control Messrs, Bergmann & Co's affairs,

and that we were doing all in our power to make thom hurry forward his material. In connection with dynamos, at the time he wrote his letter, which was on the 32nd, inst., there must have been one "S" machine at the lawrence dopot, as it was shipped from here on the 18th. inst. On the 17th, inst, he gave us an order for two "If" machines and they went forward on the 22nd. On the same date he ordered the large engine, and it goes to-morrow. We called his attention to these facts without commenting upon thom, and in relation to his insolent remarks about competent parties managing the business at this endouf the line. I stated that we would be greatly obliged if, in future, he would kindly suppress any suggestions in regard to the manner in which our business should be conducted. You cannot imagine what a "damned" impertinenatiotter he wrote. By roply is very mild and has not yet gone out of the office, and to-morrow I will show it to Mr. Edison, I made no further statements in it, except as detailed above, but if Mr. Edison considers this unnecessary, I will not send the lottor. I wish you were hore at the present time to reply to it.

In regard to bruest, he is as usual in a chronic state of "hard upness". The Illuminating Co. owes him about \$3,000., and he cannot strike them for a cent. I have had to carry him through over since you left.

Last Saburday Mastings had to give bergmann consider.

"able money to help him out, but this Saturday I am going to make
him give me a good payment, and also make a good payment to Kruesi.

We have heard nothing so far about the Danbury affair, and our estimate in that connection expired some days ago, and they have not asked us to make a new one. I see by the papers that about \$10,000, of the Danbury stock has been subscribed.

Forry came in to-night in regard to be Batchelor's stock and he teld me that he had been unable to do enything since you left, and I have embedded this in a cable to you.

I think I have exhausted all points of interest, except one, this point is our friend Mr. Gilmore. It is now only about ton o'clock, and notwithstanding the fact that he has had a regular "picnic" since you left, he is growling like a bear.

Trusting you are enjoying yourself, I am,

Very truly yours,

Piqua

Dec. 18th.

A. Stuart, Esq. Soc.

Edison Installation Co.

Cinn. Ohio.

Dear Sir:-

We beg to enclose herewith form of agreement in duplicate, forthe installation of the Pique plant, in accordance with our estimate No. 45F, and the accompaning exhibit marked "B" showing the course of the conductors, and which is a duplicate of the map that was furnished you at the time the estimate above monitored was submited and accepted.

in regard to the communication which we have received recently, stating that it will be impracticable for us to run along him to, we would say that the necessity of making this change in the course of our conductors, will increase the cost of the Piqua installation by \$2.752. For his reason we send you herewith two more forms of agreement, for the installation of a 500 light plant amounting to \$16,631.40 to the with map marked "6" and showing the course of the conductors which are so arranged as to avoid running along Main St.

19

In relation to the latter chart we would call your attention to the fact that it includes 150 lights, more than the old one, the average burning of the Siqua installation is any least 4 hours. If you soll light in Piqua for 1 conts, whose extra 150 lights will themselves bring you in a disidend of \$2500.62 for the first year, which is within a small amount of the cost of installing them. If it is your intention to soll light for I instead of 1 per hour, these 150 lights would bring you in a dividend for the first year of \$2,000.75 or \$117 in excess of the cost of their installation.

If after considering the pove facts you desire to accept our bid, in accordance with the map marked "C" which is the one including the lights above referred to, please have executed the forms of agreement sent you herewith and specifying the amount of the contract, which is \$16,631.40. Also please be kind enough to send us a check for \$608 which is \$25 per cent of the amount of the increase.

we look to them to obtain for us the mecessary permits to run, our conductors in accordance with whichever chart they accopt, and we do not held ourselves responsible for any failure to obtain such permits that would prevent our creeking poles, and running

we shall be glad to hear from You at the parliast possible moment, as we desire to order forward the additional wire if our chart "C" as accepted.

Vary Truly Yours,

Piqua Docember 19th. 3

P. B. Shaw, Es

Cincinnati, Ohio

Dear Sir:-

We bon to acknowledge receipt of your telegram of the leth, inst. Instructing us to put in a brick building at Pique and accepting our price, namely, \$2,210, or \$860. over and above the contract.

We have given instructions to have the work done accordingly.

Yours truly,

Thomas A. Edison Constn. Popt

Ву

Electric Pen

December 19th.

John Ott, Esq

292 Avonue B, . City.

Doar Sir:-

Please male up about two gallons of the duplicating

ink, and notify us when it is ready.

Yours truly,

Ince)

December 19th.

H. O. Stratton, Esq.

35v0livor Street.

Boston, Fass.

Doar Sir

Tokeyo your lotter of the 13th, inst., and in reply beg to express my regret at having everlooked your fermer letter.

The duplicating ink is being prepared, and will be sent you in the course of a few days.

Vory trally yours

Jak

December Path, 1883

Gustav Soldan, Esq. Supt

104 Guerck Street, City

Door Sire-

Bolow we give you a list or the machines we desire to have shipped on the days specified:-

Two "!" Hackines on the 26th, and two "Y" machines on the 26th, prox. to Howburgh, N.Y.

Two "Y" machines on the 26th, prox. to Bellefonto, Penna.
Two "Y" machines to Walloton, Penna, on the 24th, prox.

Two "S" machines to Mt. Carmel, Penna. on the 24th. prox.

named, and if there is any delay in the Testing Department, we wish you to report it at once to us and we will have it remedied. Unless these dynamos go on the date specified we will be servicedly delayed in our work, and you must do byerything in your power to have them forwarded in accordance with he above.

We send you an order to-day to ship two wir machines to Lawrence. These should be forwarded on Saturday doxt the 22nd.

Yours truly,

The Edison Machines Works,

December 19th.

Sponcer Borden, Esq.

P. O. Pox 3,331,

Boston, Mass

Dear Sir:-

In relation to real estate in Portland, we beg to say that if it is possible to obtain options in the blocks bounded by Brown A Elm Streets on the one side and Cumberland and Compress.

Streets on the other it would make a considerable saving in the considerable copper to be used. A lot in the block bounded by Brown, Cumberland, Proble and Congress Streets would be preferable.

We will forward the Portland estimates upon the assumption that the central station will be placed upon one of the lots selected from those already submitted, but if we can obtain a lot within the area mentioned above it will make a great saving.

Yory truly yours,
Thomas A. Edison Constn. Dopt.

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December 19th. 3

Gardne C. Sims, Esq.

rovidence, R.

Dear Sin:

We beg to acknowledge receipt of your letter of the 18th, inst. in reference to the valves of the 14 2 x 13 engines being bored for five inch steam pipe.

Wo also note your remarks in reference to our Piqua and

We will send you by to morrow's mail a list showing the dates we desire the engines you have linded outstruction for us shirted.

Many thanks for your statement in regard to caulking a boiler, also about the lead of your encenses. Do you consider it necessary for us to carry a spare wrist pin strap and bearings for each one of your energines that we have installed at any station.

Very truly yours,

Thomas A. Edison Comstn. Dpct.

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awy

Docombor 19th, 1883

Gustav Soldan, Esq. Supt.

104 Goorck Street, City.

Doar Sir:-

Are you doing anything about paper belts? Please send us the address of the party from whom you get the sample pulley for test,

Yours truly,

The Edison Machine Works,

By J.a. E

W. D. Rich, Esq.

Doar Sir:-

We are in receipt of a letter from the Treasurer of the I awronce Company stating that they want two more "H" machines and . the other 1412 x 13 engine, specified in our contract with them.

> Did you put in a foundation at Lewrence for this ongine? Yours truly.

> > Thomas A. Edison Constn. Dort.

December luth.

W. D. Rich, Esq.

Hasloton, Ponna

Doar Sir:-

We enclose herewith a number of recognandations from the derivat begins to obtain a situation with us setting up machinery. He has been connected with the Straight line Engine Company, and he has seen excellent testimentals. If you require the services of such a person, please let us know, and return the enclosed papers, obliging

Yours truly,

Thomas A. Edison Constn. Dept.

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Enclosure, a

Docomber 19th

E. H. Jord, Esq. Treas

Jawronce, Mass

Doar Sir:-

In reply to your latter of the 15th, inst, we been to say that the other "S" dyname with the extra 10" pulley was shipped to you yesterday.

We have sont the 12° and 10° pulleys, because we think you will find it advisable to change after running the 10° pulleys for a time.

We can forward the two ris machines early next week,
and we have ordered the 12 x 23 engine, which we think can be
supplied promptly, but in regard to this matter we will write you
in a day or two.

Yours truly,
Thomas A. Edison Constn. Dept.

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LOY

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M. C. Bolknap, Esq.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We beg to achnowledge receipt of your letter of the 17th inst., and in reply would say that the necessary services for Now-bursh have gone forward.

Resers. Bergmann & Co. Will give you prices for sockets

In regard to house wiring, we would impress upon you the fact that it is very unwise for your Company to have anything whatever to do with this kind of work. When you are ready to have house wiring done we can send an expert to Newburgh, who will teach a local plumber or some such suitable person how to do it.

our experience has been that if the local company takes in hand such work as this the parties who have the wiring done will have, in a great many cases, but their bills for wiring until fifter the light has been furnished, and then also numerous objections to paying these bills, entertaining the idea that the company would profer retaining them as considers and allow the bill to go unpaid, rather than take the fixtures away from them. If, on the other hand, those parties are responsible for the amount of their

wiring bills to some person who has no connection with your Compuny whatever, except having your approval to do this kind of work,
it will be impossible for the consumes to enter into a discussion
with your Company as to the payment of their wiring bills.
We advocate this course as a protection to your Company, and would
strongly advise your adopting it, inasmich as it has been perfectly
successful in other places, and in two or three towns where the
local companies disregarded our advice on this subject, they have
had trouble in the manner herein set forth.

As soon as you have applicants enough to warrant our sending on a man there, we will do so.

fours truly,

Thomas A. Edison Constn. Dept.

By.

201

December 19th

Messrs. Bergmann & Co.

292 Avenue B, City.

Door Sirs:-

We have your letter of yesterday's date in relation to the charge we made against your withing Department of \$362,34 for work ordered at Shamekin by your archiman, Mr. Johnson, and also comprising certain charges which the Shamekin Company deducted from our contract for the non-performance of work, in connection with the erection of pole lines.

Ve have read with interest your lotter to the Shamekin Company, and we cannot suggest any other way in which the matter can be discussed. We did not send you a bill for \$302. In order to effect a compromise, but we consider that, in order to make an equitable division of the loss sawtained by as all on this plant, we are perfectly justified in taking you to have that portion which directly concerns your work at that point. We have forwarded your letter to the Shamekin Company, and we have no commonts to make upon any discussion you may have with them, but our loss on our own work has been so very heavy in connection with this installation that we cannot consider any proportion which will have in view the placing to our condition a loss amount than \$302.34, in accordance with the bill sent you on the tovember

28th.

Vory truly yours,

Thomas A, Edison Constn. Dept.

By

Dec. 19th

Messrs. Begmann & Co.

292 Ave. B. City

Dear Sir:-

Roplyimmic your lotter of the 12th, inst. in regard to discounts for bove 60., we belt to say that on Sept. 10th, we wrote those people telling they you would agree to furnish goods in your Catalogue to them at 30 per cent discount, excepting Sockets, Cut-Outs, and Switchet, and on those as an extra inducement, we informed them, you would agree to give a discount of 32 per cent. We informed them that your charges for boxing and cartage on same, would be ottra. These proposals we extracted from a litter which you sent us, agreeing to furnish goods to the Swiss Company, in accordance with the above.

Very Truly Yours

Ja.E.

.

C. H. Cooke, Esq.

Cooke's Hotel,

Ann Arbor, Mach

Doar Sir:-

We send you to-day a supply of canvassing blanks, "
which we desire you to use in title when submitting your canvass
to this office.

when taking notes along the streets you may use a book, and during the day prepare those heets, which are to be sent on here. We also send you herewith a sample shoot showing how those reports should be made out.

For your further information we will give you the follow-

The column on the curvase shoot marked "Width in Foot" means width of building. Where buildings are isolated the distance between them should be paced as accurately as possible by you and noted on your report. The time should not be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass shoot. Every sheet must be numbered with the number of the block and the name of the street, and, when you canvass is completed, you should pin the four or more different

2

sheets show the four faces of each block, and then on a separate
place of paper male an index of the entwess in the follow manner:-

1 11-2 3 3 3 4 4 4

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours truly.

Thomas A. Edison Constn. Dent

By 6/07

Englosuro

December 19th.

Charles P. Lyon, Esq.

New American Hotel.

Circloville, Ohio.

Dear Sir:-

In relation to your canvass of Wellsborough, Ponna, you give the number of lights burning in the hotels by stating that they will average so many for so many hours. We desire that you shall give detailed specification of each light burning in the hotels, as we desire to know how many lights burn in the office, halls, dining room, kitchen, bar, and also the togal number of rooms in the hotel, tegether with the actual number of hours each light burns in each separate room. This information we want in connection with every hall and building where there are any purticulars to be given. We do not want you to give the average, as we prefer to obtain that ourselves from detailed information. We shall also be glad if you will discontinue to name the street lamps, as they are of no interest to us and only cause confusion in your canvass.

When you begin entering you canvass on the sheets which will be sont you to-day, please pin the four block faces comprising one block together and them make an index as follows:- BLOCK. FAGES.

1 1-2
2 3

Please make any remarks in the "Remark Column" in black ink, oxcept for troos, which you had better make in red ink.

We trust you will pay particular attention to the instructions given you within, as any deviation from the rules we set forth will cause great confusion and delay in our Map Department, which we particularly desire to avoid.

Yours truly,

Thomas A. Edison Constn. Dept.

By alo

December 19th

T. H. Toall, Esq.

Syracuso, N. Y.

Doar Sir:-

Hy same mail we send you a map of Syracuse, N. Y., and in addition to supplying us with the information in accordance with the attached form, will you kindly look carefully ever the course of our conductors, as we propose running them, and let us know if there are any obstacles, such as high trees, telephone or telegraph poles, which would prevent our running along any point where the red lines are marked on the man.

In regard to a lot for contral station purposes, any kind of a lot whatever will do us as long as it is large enough, and which point will be determined after you submit your report on options. As long as we can have run to but our plant in, it does not matter in the least whether the lot is on an alloy, and we would prefer a location which is not conspicuous as near the contor of the circle as possible.

In regard to those matters, please let us hear from you at the carliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept

D.,

December 18th

bur Ksa

Post Office,

knoxyille, Yonn,

Doar Sir:-

In your canvass of Atlanta you have omitted to class on about one third of the dwellings. This appears to be a common occurrence with you, and we trust in future these desails will not be overlooked, as they cause great confusion and necessitate our having to guess at information which should be reported to us by

Yours truly,

Thomas A. Edison Constn. Dopt.

I. C. Walker, Esq.

care Judge J. F. Bunn,

Toffin, Ohio.

Dear Sir:

We have your telegram stating that you will not be ready to leave Tiffin until after January let., and in reply we beg to say that your statements are rather misleading.

We have a lotter from you dated the 12th, inst., in which you inform us that in your opinion at the present time it "would be well to turn the work over to Messrs. Baxter & Brown."

If the present time is as good as any, we want you to turn the work over immediately and go to Welleronto, Penna. It is our aim to keep you in one point as short & time as possible compatible with the efficient teaching of the carties who are to perform the work after your departure. Please let us have an explanation as to how the matter really does stand.

In regard to your orders for material, inasmuch as we do not look to you for the payment of our bills, and as the material is ordered on account of the Tiffin Company, before we can supply it we must have an official order from an Officer of the said corporation.

We have written Judge Bunn in regard to the lamps he

December 19th.

dosires ment to Yiffin, and when we receive the proper authority for making the shipment, we will immediately have them forwarded.

Kindly lot us hear from you as soon as possible in rela-

Yours truly,

Thomas A. Edison Constn. hopt.

By (1.0 7

December 19th.

Wostorn Edison Light Co.

Chicago, Ills.

Doar Sirs:-

In relation to the attached correspondence, we are informed by in Matchinson, the Secretary of the Isolated Company, that these meters are for you. They have apparently been consigned to the Educon Company, 104 Secret Street. We have received no communication from you as to what they are for or why the shipment was made, and we await further particulars.

Yours truly,

Thomas A. Edison Constn. Dopt.

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Enclosure!d.

G. W. Wilber, Esq.

P. O. Knoxville, Tenn.

Doar Sir:

which we desire you to use in future when submitting your can-

When taking notes along the streets you may use a book, and during the day prepare these should which are to be sent on here. We also send you herewith a sample sheet showing how those reports should be made out.

For further information to will give you the following explanations -

The column on the canvass sheet marked "midth in Foot" means width of building. There buildings are isolated the distinct between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters is a is shown on the model canvass sheet: Every shoot must be minbored with the number of the block and the name of the treat; and, when your canvass is completed, you should pin the four or more different

shoots showing the for f aces of each block, and then on a separate piece of paper make an index of the canvass in the following manner:

1 1--2 2 3 4

If you nequire any further information in regard to this matter, let us know at once and we will send it on.

No wish to adopt this system at the nurliost possible moment, as it facilistates work in our Map Department, and, consequently, mayor money.

Yours Truly, Thomas A. Edison, Constn. Deb't.

Dec. 20th

è.

W. S. Androws, Esq.

Chief Elec. Engineer.

P. O. Box, 565 Fall River.

Mass.

Doar Sir:-

Will you please let us know how the motors for youburg, Ecllefonte, Piqua, Hiddletown, it. Carmel and Mazelton are to be standardized, Eacher the "A" or the "B" meter, and oblige.

Very Truly Yours,

By apy

3

C. E. Chinnock, Esq.

257 Pearl Stroot, City

Dear Si

Could you very kindly send about 10 lbs. of sulphate of zinc to the Mdison Wlectric Illuminating Company, Fall Rivor, We ordered 300 lbs. of this from Mr. White, but up to this Mass. writing he has not supplied it, and we have had so much difficulty with bad material that we are afraid to send anything that we are not absolutely sure of. Mr. Edison is in Vall River at the present moment, and has telegraphed for this sulphate of zinc, and you would confer a very great favor upon us if you would express it Furthermore, if you could send on a couple of ounces of marine glue we should be deeply indebted. We have ordered some of this to be expressed from Messrs, Eimer & Amend, but inasmuch as a quantity which they sent to Lawrence sometime ago proved to be useloss, we wish if possible to guard against the same mishup at Fall River. We are making arrangements to have this gaue prepared' at the Testing Room.

We regret exceedingly to be obliged to trouble you, as we rear you will consider that we are imposing upon good nature, be but under the circumstances you are the only person to whom we can

December 20th. S

appoint to help us out of this trouble.

Yours vory truly,

Thomas A. Edison Constn. Dept.

By AM

وربية مراجيها أبوط بحراب

Dec. 20th

M. C. Relknap, Esq. Sec.

Edison Eloc. Ill. Co.

Nowburg, H. Y.

Donr Sir:-

We beg to ucknowledge with thanks your letter of the loth intt, and wish you would be kind enough to notify us immediately the building has its roof completed.

Yery Truly Yours,

Thomas A. Edison, Constn. Dep't.

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apy

W. S. Andrews, Esq.

Door Sir:-

possiblio?

We send you helrowith blue print, of the Williamsport station. Ploase adviso us of electrical material as soon as

> Very Truly Yours, bras A. Edison, Constn. Dop't.

Dear Sir:-

We are to day in reseipt of a letter from the secortary of the Mowburg Co., in which he states provided they have Tayorable weather, the walls will be up and ready for the roof timbors in night days. We have requested these gentlemen to edvise us as soon as the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constn. Dop't.

December 21st

Mossrs, Borgmann & Co.

202 Avenue B. City.

Dear Sirs:-

We are this morning in receipt of a letter from Mr. Edison dated Pall River, and in it he asks us to instruct ou to be sure that two lasps with wire in control of them go with such indicator you send out, also that two feet of 1000 patitions iridium wire go also with each indicator extra. Mr. Edison states further that three of the spirit levels on the pressure indicators you sent to Pall River have the bubbles so long that they are utterly usedess, and he complains very bitterly of your neglect in not having this work inspected before it goes out; he also says that one of the new field regulators there has a wrong number of blocks.

Kindly give these matters your attention.

Thomas A. Edison Constn. Dept.

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Doar Sir:-

We have your letter of the 20th, inst., in reference to advising you about shipments of material, and in future will see that you are promptly notified when any consignments are made. Yours truly,

Thomas A. Edison Constn. bDept.

December 21st

Mossrs, Waterhouse, Winterbotham & Harrison,

1. New Court, Carey Street,

lincolns lnn, W. C.

Jondon, England.

Dear Sirs:-

t have your letter of the 4th. inst., tegether with instrument appointing Mosers. Theodore Waterhouse, William Howard Winterbothem and Richard Lake Marrison my Powers of Attorney.

I have signed some, had it duly attested by a Notary, and also had attached to it the certificate of the English Consul Coneral, and return the same by this mail, under separate cover.

Yours very truly,

Take

December 24th.1883.

Gustav Soldan, Esq. Supt.

104 Guerck Stroot, Caty.

Doar Sir:-

In reply to your lotter of the 21st, inst. I bog to say that it is my opinion that you had better set a blower. Hav you not got one at the Works which will answer? We use a blower at the Pearl Street station.

I return herewith Manuscript Tetter to you.

Yours truly,

The Edison Hachine Morks,

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Enclosure, C!

Docomber 24th, 1883.

Mossrs, Macpherson, Willard & Co.

Bordentown, N.J.

Doar Sirs:-

To have a lotter from our Superintendent, Mr. Soldan, in which he complains of the very slow mamner in which you deliver custings to the Machine Works. Could you not arrange to deliver these more promptly, as the non-receipt of them holds buck our central station work, and imposes upon us the necessity of carrying a lot of goods which we could otherwise dispose of.

Yours truly,

The Edison Machine Works,

By yas

December 24th.

Frank B. Rac. Esq.

care Commercial Telegram Co.

18 Broadway, City.

Dear Sir:-

We have your letter of the lith, last, confirming your accortance of our effer of seventeen cents a pound for 1,000 lbs, of copper wire, which please be kind enough to ship to Thomas A. Edison, 202 Avenue B. City.

We will pay you ton conts per pound for couplings.

Yours truly,

Thomas A. Edison Constn. Dept.

B

60 J

W. D. Rich. Esq.

Bollefonte, Penna,

Dear Sir:-

We send you to-night under separate cover blue prints of Mt. Carmel, Hellefente and Hazleten, which are to be used by the wiremen who have charge of the erection of the pole lines. All information necessary for these parties to have will be found attached to the charts.

Yours truly,

Thomas A. Edison Constn. Dept.

December 24th

. H. Pofinger, Esq. Prest.

Amorican District Tolograph Co.

How Orleans, Ja. "

Doar Sir:-

In regard to the map of New Orleans, soft you under sonarate cover this date, in addition to supplying us with the information in accordance with the attached form, will you kindly examine the course of our proposed street installation and let us know if there are any alterations in same which, in your opinion, it would be desirable to make, and very much oblige.

Very truly yours,

Thomas A. Edison Constn Dert

B

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Englosuro

December 24th.

Goorge D. Beryamin, Esq.

Dixon, Ills.

Doar Sirt-

I have your latter of the lith, inst, in reference to utilizing electricity for wood cutting, and in reply I beg to say that this experiments has several times been tried, but the idea has been abandoned, as the carbon of the wood rots the platina,

Very truly yours,

December 24th

George H. Bliss, Esq.

Chicago, Ills.

Dear Sir:-

We have your letter of the leth, inst. in reference to an amore indicator, and consider it advisable for you to use one. Messra, Hergmann & Co. make them, and you should order one to show long and graduate it from zero to 275 amores.

Yours truly

7a E

Doc. 24th,

Henry C. Mc. Cormick, Esq. Prost.

Williamsport, Penna.

Dear Sir:-

We have your latter of the 19th, inst. in reference to our map submitted to you by Dr. T. C. Detviler having been accepted as the skihibit "A" referred to in the contract between us. and we boff herowith to confirm our approval of same.

wardly to Point Street, northwardly to Fifth Street, westwardly to the Lines as running quatwardly to Point Street, northwardly to Fifth Street, westwardly
the hallow beginner Grace and Edwin Streets and parallel to
Gampbell and Malnut Streets, and southwardly along forst alley
south of Harkot Square from William Street to Academy Street.

In relation to this contract, we are still vaiting to receive from you the first payment of twenty five per cent of the amount of the same, and which first payment is \$19,300.44. We have all our orders for material ready to send out, but until we receive the above emittance fromyou we will be unable to do empthing in reagrd to forwarding the necessary material to commence work, inasmuch as we have to pay a certain percentage on the greater part of our orders attithe time they are submitted

Vory Truly Yours,

Guch Dept

1883-12-24

December 24th.

W. H. Dwolley, Jr. Esq. Treas

Fall Rivor, Mass

Doar Sir:-

I understand that the engineer allowed the wrist pin of the engine to get het and you had to shut down. This is pure carelessness, no matter what the engineer says.

ours truly,

Dan

3

H. H. Doubleday, Esq.

P. O. Box 565.

Fall River, Rass.

Dear Sir:-

Can you tell us how soon witch will be through with the work he is doing at Mall River? As soon as he is prepared to lone lonve there, we should like him to come to some to New York, as we desire to secure his services in connection with other installations,

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ву

Docombor 24th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Dear Sir:-

We have your latter of the 20th, inst., and await the decision of the lique people in reference to the change of the vole lines at that place.

We have received a communication from an Shaw in regard to brick buildings for future estimates, and will comply with your wishes.

Yours truly.

Thomas A. Edison Constn. Dort.

Documber 46

3

William Schwenk, Esq.Prest.

"t. Carmel. Penns

Doar Sir:-

Upon receipt of your letter of the leth, inst. we wrote to Hessrs, Bergmann & Co. to herry forward your material, and they replied to us that they would use the utsest despatch.

In regard to a wiring outers, our man will be there in the course of a week or two.

Yours truly,

Thomas A. Edison Constn. Dept.

125

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E. H. lord, Esq. Trons.

I awronco, bass.

Door Sir:-

We have your letter of the send, inst., and in rorly bor to say that the othere's machine was shipped to you on the luth, inst., and we wared you to that effect.

In regard to the belts you are using in lawrence, we well all you attention to the fact that we are using 10° belts in the same connection at other places and they are giving perfect satisfaction. We therefore see no reason why they should not prove satisfactory at lawrence.

On the 15th, ingt, you asked us to supply you with two more 'm' dynamos, and they were shipped on the 32nd., for which we enclose bills of lading. Tou also asked us for another 142 x 13 engine, and this will be forwarded either to-morrow or the next day, also the bedplate and wishers?

We instructed posses bergmann a Co. to send you some of the new indicators on the light, of the present menth, which was the earliest date we sould issue such an order, on account of the appliances not having been completed until a few days prior to same. We regret that we have not sufficient control over Mesors, Borgeann a Co's affairs to insure sore prompt delayory of orders

placed with them on your account,

We are sorry you considered it necessary to write us in such a tone as that embodied in your communication of the 22nd.

inst., and we shall be obliged if, in future, you will kindly suppress any suggestions as to the sanagement of our affairs.

We are duing all we possibly can for you and we do not feel that you are justified in writing as fotters of this nature.

Vory traly yours, Thomas A. Edison Constn. Dept.

By Zale,

Enclosure, d.

New York, December 26th, 1863.

65 Fifth Avenue.

Samuel Insull, Jr. Esq.

2) Burton Croscent.

Iondon, W. C. | England.

My Dear Insull :-

We have been daily expecting an autograph communication from you, but up to the propert them the only thing which has come to hand is a cablegram, from which we have ascertained that you are sojourning in Paris.

In relation to the letter think you wrote going down the Bay for Major Esten, I enclose herewith dopy of a communication we received from him in reply to the one you bent him. We have done nothing whatever in the matter and are helding it until you return.

The Pall River station was started very successfully on the lith. inst., and has been running very smoothly ever since.

Andrews and Conant wone to fiftin to dight to commonce werk there on the inside of the station. Mt.Carmel is ready to be wired, and Hellefonte and Mexicton will be ready on the 1st.

In my last letter I told you that the williams or contract had been closed, but that the street installation was under consideration. That Company have agreed to accept our map in accordance with the new canvass and last determination. This determination is a much cheaper one than the old one, notwithstanding the fact that we included about 2,000 feet more mains. The above Company have not yet paid the first instalment on account of their contract, but I am to-night in receipt of a tologram from them in which they state that the money has not all been paid in, but that they will send a check to-morrow or friday for a portion of it.

In-regard to finances, possibly a history of the way I had to "skin" through on Saturday last will interest you, When Mr. Edison left here on Tuesday he promised me he would be back Priday night. I have tried to impress him as much as possible with the necessity of being here to sign payroll checks, and he seemed to take it all in. I got three checks from him on the Cormania payable to my order, and feeling confident that he would roturn I disposed of two of them, in fact I had to dispose of these as the payments were necessary, one on account of the Machine Works and the other for bruesi, who is frightfully hard up. Saturday morning just about when I was expecting Mr. Edison to arrive and opening my mail you can imagine my horror upon receiving a note from him dated Fall River saying that the snap was booming, that he was going up to Haverhill to try and close that up and would not be back until Sunday. Thad about \$3,400. In the Germania I only had \$2,000. I had a check for \$1,500. for the Machine Works which I could not deposit, as I have no power in that connection with those works, and in the Bank of the Metropolis I had about \$1,000. I stood the shock with Christian Fortitude and bravely went for the mail again, where I came across a chock for \$1,000, sont most unexpectedly by Garrison in part paymont of the Brockton extras. This check was for Thomas A. Edison,

Sunbury, and wanted us to close a contract with them without having a cunvass made, and in fact without ever having before seen a representative of the Edison Electric light Company. The same thing is reported from Circleville, where the people say that they cannot wait for a canvass to be made and want us to go shead and put the light in without it. You see that the "snap" is going to "boom" tremendously next year.

Wit Edison has gone up a posint and reached my figures, and is now firmly of the opinion that we will do \$3,000,000. worth of work furing 1884.

STATIONS. Tiffin stable is ready for the wirement to go to work on the inside, and indrews will have his men there in a few days. The pole lines are all completed, and Hibler goes to Hellofonte to put up the lines there immediately. The Mt. Carmel building is completed, and the machinery is being set. Bellofonte is in the same condition and the Hazleton building had the roof completed to-night. Nich his got a good man for pole line work at Mt. Carmel, and we will be to delayed in this matter at all the Middleton building is in the course of erection. You will remember, no doubt, that the about allowed for this building in the estimate was \$2,210., and the estimate at attend that it was to be a frame structure. When lich was here, on Sunday last, I discussed the point with him, and decided that on account of brick being so chasp at Middletown It would create a much botter impression if we were to erect a building of this material, and I

gave Rich instructions to this end.

I had a letter from Shaw asking us to put up a brick building at Piqua. The amount allowed in the estimate for this building was only \$1,350., and it was to be the same size as the Biddletown building. I wired Shaw that we would creek a brick building at Middletown, and that we would put up a brick building at Piqua for \$2,210., the same price as the former. To-night I have a telegram from him accepting the figures, and I have wired Rich accordingly. The foundations of this building are being put in at the present time, and Rich says that there is a good margin on these figures.

Major Eaton sont up a lotter from Mr. Hoffinger of Now Orleans, and the prospects of closing this contract are excellent. They have ever half the capital stock subscribed at the present time, and the affair is almost as good as settled.

St.louis, from Wrosston's report which the Major sent up to-day, looks a little "blue" again, but this will eventually go through.

The regard to the Danbury installation, you will recollect that this was one of the estimates which we made before we discovered that we were about five per cent out on our general expenses. The day after you left T asked Mr. Edison if it would not be a good idea to give Harris's Robinson six days to close out that business, and if they failed to do it in that time the ostimate was to become yord, and a freething substituted.

lie approved of the suggestion, and to-morrow the Danbury estimate gives up the ghost. - They had a meeting in Danbury last night, the result of which, in connection with the acceptance of our estimate, has not yet been communicated to this office, but I do not anticipate the acceptance of it. I hope you will endorse this action, us, in my opinion, we have been working for love long enough and are known justified in taking the proper means to protect ourselves in the future.

Ecfore you return we will have all the plants now under way running, I think, without any exception.

Everything has gone along value a hitch since your departure.

The shorthand man you engaged has turned out to be of no use, and I have arranged to get additionan. I will have him properly broken in before you come yet. He is to come at the same figure as the man who leaves is setting.

I cannot at the moment shift of any other points of interest, but I will write you regularly now every few days, and keep you thoroughly posted as to what it going in.

Krussi came to me the other day and took me into a corner very confidentially. Indiced that there were tours in his eyes and that he was very much agitated, and he asked me if I had ever been connected with any machine works and upon informing him that I had, he wanted to know if patterns were regarded in a an available asset!!!!!!

Trusting that you may have a very Morry Christman and Majpy New Year, which is sterectyped, but none the less sincerely, and also conveying the same wish from our friend Mr. Gilmore, who since you left has "kicked" like a sule against working on Sunday, bollove me to be,

cry truly yours,

Samuol Insull, Jr., Esq.

21 Burton Crescent

lendon, W. C. England.

December 20th

Sponeer Borden, Esq.

P. O. Box 3311.

Roston Koes

Doar Sir:-

I have your letter of the 24th, inst, in regard to Mr. Bancroft, and in reply beg to say that I have written to that gontleman complimenting him on the able manner in which he performed his work at North Adams.

Very truly yours,

December 20th.

Mossrs, Alden & Sterne,

2 Wost 14th, Street, City.

Door Sirs:-

In reply to your communication of the 20th, inst. I

bot to say that we had to find the lots to get up our specifica
tions. The company cannot de snything until the specifications
and plans are ready, and this will take about two menths.

Yory truly yours.

Jan 1

W. S. Andgows, Esq.

Tiffin, Ohio.

Door Sir:-

We are in receipt of a letter from MM. Rich in which he says that the Mt.Carmel station is ready for wiring, and that "Maxleton and Bellefonte will be in condition for your men on the late, January.

You will have to make some pretty lively moves to take those all in on time.

Yours truly,

Thomas A. Edison Constn. Deut.

By alon

,

December 20th.

J. F. Bunn, Esq. V. P

Tiffin, Chio.

DearcSir:-

We referred your letter of November 30th., in regard to
the paragon cable, to Br. Walker, and we have informed him that wher
wherever parties are willing to take the risk as regards the wire
being approved by the Underwriters it is all right to supply them
with it. The advantages afferded by the use of this cable make
it a much more desirable article than any other wire in practice
at the tresent time.

Very truly yours.

Thomas A. Edison Constn. Dept.

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asy

December 26th.

W. L. Carrison, Esq. Troas.

P. C. Dox 3627.

Boston, Kass.

Dear Sir:-

In regard to a communication which we received from you some time ago in relation to a Gromwell heat Controller, we "referred the matter to our Superintendent, Mr. Rich, and in reply "he states that the day before he loft Fall River he received a let-"ter from the Gromwell bros. about the heat controller at brock-" ton, saying they were ready to take it out if it was not satis-"factory, and if it was satisfactory they desired to be paid for it. "Mr. Rich immediately wired Mr. Johks asking him if the heat controller had been tested, according to the agreement made with the Cromwell Bros., which agreement was to have the coal carefully waighed and they to fire the bubber one week and our engineer to fire it the next week, they to fire it the third week and our ongineer the fourth week! Then the figures were to be submitted to us and, if it appeared that they had saved five per cent over "the old style of damper, we were to take the controller and pay" the amount, otherwise they were to remove it at once and put the brick work in as good condition as it was prior to the introduction of the heat apparatus.

Mr. Jonks reglied that they had not weighed the coal, but that the engineer thought it saved fuel. Mr. Pich considered that such a test would not justify the purchase of the apparatus, notwithstanding the opinion of the engineer, as he had heard there are your previously that he had a very feer opinion of the damper, and stated that unless they could comply with the terms of the agreement he would not jurchase the heat controller.

If the Unuswell Bros. still wish to fulfill the conditions of the contract, our Superintendent will receive their figures and give the matter due condideration.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Edison, T.A

December 201

D. H. Burrell, Esq

Little Falls, N. Y

Doar Sirt-

I have your letter of the Mast, inst, in regard to separating cross from milk, and in reply beg to say that I have not forgotten the matter, and just as soon as I get my electric l'light affairs in shape I am going to work up several industrial conterprises, of which this will be one.

Very truly yours,

Jak

December 20th.lu83.

Gustav Soldan, Esq. Surt.

104 Goerek Street, City

Doar Sir:-

We enclose herewith a letter from Mr. Dwelley in reference to the Flint Mill installation.

Please have the smitch would and bolts he speaks of sont forward immediately, together with two hors tracks of uniform size to correspond with those of the other "N" machines. This installation is an important one, as we expect more orders, providing it is satisfactory, and we will you to pay particular attention to the statements and requests made by the Dwolley in this letter.

Yours truly,
ThomsaisonRMichans Works,

Bv

.

Enclosuro.s.

December 26th

3

R. Rogers, Secty. Pro Tem,

The Edison-Gower-Bell Yelophone Co. of Europe, Itd.

london! E. C. England.

Dear Sir:-

I have your letter of the 7th, inst., and in reply beg to say that I have sont you this day by registered mail my Italian Tolophone Patent No. 9791, granted February 8th, 1878.

Please ad nowledge receipt and oblige,

Very truly yours,

Dan

Goorge W. Wilber, Esq.

Post Office,

Inexville, 70mm

Dear Sir:-

We have your lotter of the 23rd, inst., and in regard to the width or buildings we ben'to say that the red figures in the model canvass sheet sent you represented the distance between isolated buildings.

In relation to trees, please give the number on each block face, and if evenly distributed, say so, and if not evenly distributed, morely montion the fact without giving the distance between each the lack l, C.D. means wiret class healing.

After yoursend in your first ednyage in accordance with the new process, we will be able to tell exactly upon what points you are deficient, and you will be immediately advised as to where corrections should be made.

We note your remarks in regard to the difficulty you have in obtaining money by check, and in future we will oither send it by postal order or will telegraph it to you, waiving identification, which will obvinte all difficulties each time you arrive in a new town.

please wire us at once your hotel address. When you

wore in Mobile we had two or three tolegrams roturned to us with the statement that George W. Wilbor was unknown in that city.

Yours truly,

Thomas A. Edison Constn. Dept.

Ву

LOY

December 26th.

H Ward Joonard, Esq.

Layrence, Mass

Door Sir:-

In reply to your letter of the loth, inst., wherein you referred to printed answers to questions on meters \$e., kr. Salson states that he gave you a copy himself before the six copies were sent to Brockton. Mr. Edison states that he left Brockton before these latter copies arrived, and that he certainly gave you one and told you to mark your name in it. We wish you would make a thirough search for this, known, as it is very desirable that It should not fall into other hands than those of our electrical complexees.

Yours truly,

Thomas A. Edison Constn. Pept.

By Olly

Dagomber 20th.

W. L. Garrison, Esq. Treas.

P. O. Box 3027,

Hoston, Hass.

Deur Sir:-

We beg to acknowledge with thanks receipt of your letter of the 21st, inst, enclosing check for \$1,000, on account.

We communicated with Mr. Jonks to-day in ropard to the change you desire made at Brockton, specifying the material we propose to supply you with. Mr. Jonks will no doubt communicate with you on the subject.

Very truly yours,
Thomas A. Edison Constn. Dort.

Ву

alog

December 20th.

I. C. Walker, Ess.

Tiffin.

Doar Sir-

We have your letter of the 21st, inst., and in regard to the shirment of material in connection with the wiring of buildings if you intended Messrs. Baxter & brown to pay for the material which was shipped to Tiffin, you should have instructed them to sond us an order. We have no doubt that it would have been all right to ship the mater on your order, but we much prefer to have writton authority from the parties who have to bear the expense of the material, which avoids any discussion that might take place as to who is responsible for ordering it.

We are very anxious that you should leave Tiffin as soon as possible, but on the other hand do not desire you to go to any other point until you consider Messrs, Baxter & Frown theroughly competent to take full charge of the Tiffin work.

In regard to the new cable, where parties are willing to take the risk as regards insurance it is all right to supply them with it.

Yours truly, Thomas A. Edison Constn. Dout.

December 26th.

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Doar Sir;-

In regard to a communication we received from you some time since, wherein you state that when you fod your boilers with cold water the steam was so damp that it would not do more than war half duty although the pressure remained the same, and wherein you claimed that the trouble was in connection with the injector connected with the boiler, we referred these statements to our Superintendent, Mr. Rich, and in reply he says that it is impossible for any ingector to feed cold water into a boiler under a pressure of 190 heat, which is the lowest temperature, as indicated by the thermometer attached to the injector. He further states that the connection with the new boiler is made precisely at the same point as on the boiler which was first set, and that the real trouble is that the engineer carries the water too high in the stoum drum. If he would adjust the injector so as to gauge a constant food according to evaporation and not allow the water to rise above the second cock, you would find no cause for complaint. neither would there be any danger of bursting the cylinder heads or syphoning water from the boller. Mr. Rich says that he is confident this is the trouble at lawrence, as the same thing was met

with at Prockton with the first engineer we employed there.

Our Superintendent will visit lawrence shortly and explain these matters to you in person, and endeavor to adjust the difficulty with at the present time.

Very truly yours,

Thomas A. Edison Constn. Dept.

W. J. Jenks. Esq. Managor.

Brockton. Mass.

Dear Sir:-

Replying to your letter of the 21st, inst., we beg to say that when we submitted our bid for the change at Brockton, amounting to \$1,200., it was our intention to undertake to do the work in connection with making this change, except as regards alterations to the engine. We should, however, profer you to do the work in connection with setting up the new machines, and beg to submit the following proposal:-

We will supply you with mutorial as below at the prices named:

Two 400 light dynamos (10 candio power)	,,007.00
Two belts for samo	80.25
Two regulators for the above machines	115.00
Switches for same	13,00
Two double dynamo switches for changing circuits.	49.40

We will take back from you, one 800 light dynamo and one belt, allowing you \$1,400, for the former and \$30, for the latter

This will leave an amount to be paid us of \$552.01

Repairing 800 light machine

December 20th.

You will do all work in connection with putting up those machines, pay expenses of boxing and shipping the machine and belt returned to us.

Floase let us know if this will be satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dopt.

В

Loy

December 20th, 3

Charles P. Lyon, Esq

Post Office,

Pottsville, Penna.

Dear Sir:-

In roply to your lotter of the sind, inst., we beg to
say that we consider it advisable for you to obtain as much
information as possible in regard to real estate for sale in the
different towns you canvass. There are no regular report forms
calculated to embody this information, and you can send it to us in

Yours truly,

Thomas A. Edison Constn. Dept

iny A

Thomas F. Righter, Esq. Troas.

Ht. Carnol, Fenna.

Dear Sir:-

In roply to your letter of the 17th, inst., we bog to say that we will extend your lines from Fifth Street slong the alloy between Marle and Cal Streets to Sixth Street, in order to take in your bouse, without extra charge to your Company.

This concession will cost us about \$100, more than we have allowed for in our contract, but inammuch as you state Mr. Edison promised it, we will of course undertake to do the Work.

In regard to running along Sixth Street instead of Fifth Street, this change would alter our electrical determination and would render useless the greater part of the wire we have shipped to Mt.Carmol. Your house can be taken in by a service from the entrance on Sixth Street to the alley between Maple and Oak Streets It is impossible for us to made any other changes in this installation, and we trust you will be muticated with the alterations made in accordance with this lotter.

Ploase show this communication to be Schwenk, and toll
him that it answers his communication of the 17th. inst.

Very truly yours.

Thomas A. Edison Constn. Dert.

December 20th. 3

John M. Stewart, Esq.

2096 Third Avenue, City,

Dear Sir;-

In reply to your latter of the leth, inst., I shall be glad to have you call at this office as early as possible, bringling with you any latters of Yeccomendation which you may have.

s truly,

Jak 1

December 20th

:3

M. Y. Safety Steam Power Co.

30 Cortlandt Street, City.

Dear Sirc:-

July you please lot us know the price, together with our best possible discount, for your vertical engines cylinder 3 x 5, and designated in your catalogue of Hovesbor, 1883, as figure No.5. If we can make satisfactory arrangements with you in regard to prices we may adopt these engines in all our contral stations, and will probably be able to place large orders with

Very truly yours,

Thomas A. Edison Constn. Dopt.

Ву

acey

Dec. 27th,

W. H. Douty, Esq. Pros.

Shamokin, Penna.

Dear Sir:-

Refeering to the amount of \$2,000 which is still ou standing on our books against your Company, we should very much to know what your intentions are as regards the sottlement. You are no doubt aware that as Var as we are concerned the "Shamokin Installation, was fine neiglly a heavy failure, and in "consideration of this fact, we are compelled to urgettou to make a speedy settlement of the balance now dog us. The dath of the bill which was made out to your | Company, specifying the materia. which had been supplied on account of the contract, is October 13th, andfrom that dat4 we will charge you interest at the rate of 12 per cent per anum. We can assure you that hthis interest by no means compensates us for the less we are sustaining through the tardiness of your sompany. We turn our money so quickly that the principle yields much more by being in our hands, so that we can directly control it, than by being let out at any rate of interest, which it would appear reasonable to charge." We can assure you that it is as distasteful for us to have to remind you of this matter so often, as it is for you to re-

d

Doc. 27th

"coive our letters, at the same time we think that we are not being justly dealt with, when the affair is last dermant except at such times as it is brought directly to y are detention by letters from this Office.

No trust you will therefore send us a check for the full amount upon receipt of this lotter, together with 850.00 which is the interest from the date of your bill namely decobor 13th, to the present time, and which is charged to you at the rate above mentioned.

Very Truly Yours,

rac

Shamolein

Dec. 27th

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Doar Sir:-

In relation to the 150 temporary fixtures which you returned from Shamekin, andfor which you desired us to give you credit, we beg to suy that the amount charged you for these fixtures was 10 2 cents each. We shall therefore have pleasure in allowing you the same rate, as the fixtures are in order and we can use them elsewhere.

In November we wrote you a letter in regard to our acmigrount, and some errors which were made therein, in connection
with calculating the amount to be deducted for certain work which
was not performed. By referring to the said letter, you will
find that you credited your account with \$56.92 too much. The
amount which we will allow you for 150 fixtures is \$72.75, and aafter deducting the overcharge referred to we will one you

We wrote you to day in referrance to the balance still due on your contract, and asking you to send us a check for \$2,050. If you will therefore make this check for \$2,034.17 it will square our accounts.

Vory Truly Yours, 9 2 8

Docember 28th.

J. P. Kirby, Esq.

Essex liouse,

Salom, Yass.

Dear Sir:-

in reply to your letter of the Dith. inst., we bon to say that after you are through with the Jawrence company we can probably do semething for you.

Yours truly,

Thomas A. Edison Constn. Port.

Ry

Roy

Dogowhou 2004

John Hullen, Esq. Treas.

Shamolin, Penna.

Dear Sir:-

I have your letter of the 20th, inst., and in reply bon to say that I do not quite understand the meaning of it. I have no stock in the Shamekin company. There is a balance of \$2,000, due on our contract, and I have written an bouty in relation to it to-day.

Very truly yours.

mu

December 28th.

E. H. Lord, Esq. Treas.

Lawrence, Hass.

Doar Sir;-

In relation to your lotter of the lith, inst., wherein you asked us to supply you with two more "H" dynamos and another 142 x luenging, which necessitated the bodplate and washers, we presume the dynamos have been received in Laurence, the bodplate and washers were shipped jesterday and the engine is being louded to-day.

Will you be kind enough to sold us your check for \$1,377.50, which is twenty five per cent of the amount of this order, and which should be paid to us upon the reception of your requisition, in accordance with the terms of our agreement.

The above amount is made up as follows:-

Will you not require some for offertical apparatus in connection with this addition to your station? Shall we get a list of what is necessary from our Electrical Engineer, Hr. Andrews, or well you send us a requisition for what you want?

Yours truly,

Decombor 28th. 3

W. S. Androws, Esq.

Tirfin. Ohio

Dear Sir-

We have received a telegram from the Secretary of the fiffin Company in relation to services, and in relay to same we told him that Mr. Conant would give all necessary explanations as to how the customers are to be cut in. We have forwarded the wire for this jurpose and if any other material is required wish you would be good enough to have the Company send us a requisition for it.

Yours truly,

Thomas A. Edison Constn. Pont.

200

Docomber 25th.

li. Ward Joonard, Esq.

Lawrenco, Mass.

Doar Sire-

We have this morning received your letter of the 30hh, inst.

The No. 30 copper whre you speak of will be expressed to-day or to-morrow.

In relation to drawing upon us, we beg to inform you that this is a privilege which we very rarely extend to our on-ployees, and only in cases of absolute necessity do we allow them to make drafts on us for money. If you desire it we shall be glad to send you a check once a week for your salary and allowance, or at such intervals as you would prefer.

Mr. Andrews gave us a requisition for the material mentioned in your letter, and his request is having our attention.

Wo onclose herowith check to balance your account to

date.

Yours truly,

Thomas A. Edison Constn. Dept.

341

ap

W. I. Garrison, Esq. Treas.

B. O. Box 3627.

Boston. Hass.

Doar Sir:-

In accordance with your request we have pleasure in employing herewith a detailed statement of our account against you for \$1,170.42, which was the one you wanted us to itemize. If you have may counter charges, we wish you would be kind enough to send us a statement of them at the earliest possible moment, as it is our desire to close this matter out and obtain whatever balance may be due us, as we wish to use the money. In accordance with the statement sent you yo still owe us 5537.42

Vory truly yours,

Thomas A. Edison Constn. Dopt.

by A

Enclosure, b.

Docombor 28th.

James Harris, Esq. Secty.

Ballefonte, Penna.

Dear Sir:-

We have received your telegram of yesterday's date in regard to the millefente street installation, and in which you state that the wires do not extend to link a Curtin Streets, as agreed with Mr. Shaw,

In reply we beg to say that we know nothing of Mr. Shaw's statements in connection with this matter. On the 2nd. November we sent Mr. Shaw a letter enclosing an estimate for the erection of an Edison Electric light Central Station Plant of 300 lights especity and amounting to \$14,701.00, together with the forms of Auroment, map showing the proposed course of our designators and plan of the general arrangement of the station we proposed creeting we called Mr. Shaw's attention to the fact that there were UAS lights covered by our wires. The next day we get a telegram from Mr. Shaw asking what it would cost to increase this plant to 400 lights, and on November 5th, we wired him that to make a Hell's efente estimate for 800 lights capacity, instead of 500 lights capacity, would increase the figures sent him on the 2nd; November by \$2,310. This brought the amount of our estimate up to

317,071.60 Your Company made some few deductions in the minor details of the estimate, which reduced it to \$10,557,27

You will soo from this that the subject of the change in the street installation was not breached at all, and that the increased caracity of the station was made in view of the fact that there were BAS lights in the district, and that it would be advisable to take them all in.

We will send you to morrow our figures for making the extension you desire, and if they are accepted we will have the material sent forward figurediately.

Vory truly yours,

Thomas A. Edison Constn. Dont.

By

Tale 1

Dogombor 28th.

W. H. Owelloy, JrEsq. Treas.

Fall Rivor, Mass

Doar Sir:-

We beg to acknowledge with many thanks receipt of your check for \$4,000. on account of the Fall River installation, and in reply to your letter under same cover, in which you say you had made the third payment, we would state that at the time the station was ready to supply light there was an assumt of \$2,014.45 on account of the third payment due us, which was made up in the following manner:-

Ton per cont of the amount of our contract, namely, \$4,160.60, was jaid upon the signing of the agreement; twenty per cont, namely, \$8,381.00, was to have been made on October 25th.; and twenty five per cent, namely, \$10,452,47, was to have been paid when the installation was ready to supply light. These payments aggregate \$22,995,43

The amounts received from you are, as stated in your letter, \$4,186.00, \$0,000, and \$0,366., making a total of \$20,000.go.
This loft a balance of \$2,314.43, which we mentioned above as being due us last week and it was this amount we had reference to whom we tolegraphed you.

We are very much obliged for the check you sent us and

have given you credit for same,

We return herewith receipt.

Very truly yours,

Thomas A. Edison Constn. Dept.

By (In

Enclosure, a

Documbor 28th.

R. G. Acheson, Esq.

13 East Stroot,

Red Jion Square,

london, W. C. England.

Doar Sir:-

In reply to your letter of the 18th, inst., to hand today, I beg to say that we can give you a situation, but cannot at
the moment say definitely what it will be, and if you come over
it will be necessary for you to take whatever turns up.

Very truly yours,

pac

Decombor Buth.

E. B. Hubbard, Esq. Secty.

Tiffin, Ohio.

Dear Sir:-

We have received your fologram of the 25th, inst.

regarding the cervice wire, and in reply beg to say that Mr. Conant
will give all explanations in relation to cutting in customers and
the running of service wires, material for which purpose has been
forwarded to Tiffin.

Very truly yours, Thomas A. Edison Constn. Dopt.

Ey aray

Denombor 25.th

W. D. Rich, Esq.

Bellefonto, Ponna

Door Sire-

In relation to the may sent you showing the course or the hole lines at Mt. Carmel, we beg to say that we have agreed to extend our line on Fear Alley from Fifth Street to Sixth Street. It will necessitate about four more poles and we have ordered forward the additional wire. We send you another map showing the extension referred to.

Yours truly,

Thomas A. Edipon Constn. Dojt.

7

Enclosuro

December 28th.

W. D. Rich, Esq.

Bellefonte, Penna

Doar Sir:-

In reply to your letter of the &snd. Inst., wherein you make a sketch of the kellerente building, we beg to say that your arrangement is the only one which, under the circumstances, will alter our plans to conform therewith.

Yours truly.

Thomas A. Edison Constn. Dent.

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acy

Docomber 28th.

Sidney B. Paine, Esq.

P. O. Box 3311,

Boston, Mass

Doar Sir:-

In reply to your latter of the 27th, inst., we beg to say that an 800 to 1200 light plant, pole line, varios from \$2.1, to \$2.0, per light. This cost includes the running of the station for thirty days at our expense after same is ready to supply light. The machines which we would ded in connection with a 1200 light plant would be two "Y dynamos, which give \$000 ten candle power lamps each, and one \$2.x 12 origine. You of course understand that it is difficult to approximate the cost of any plant, as there are such a variety of directions which cause the amount

Very truly yours,

Thomas A. Rdlson Constn. Dept.

... (Q.D)

December 25th

A. Stuart, Esq. Socty.

Gincinnati, Ohio

Doar Sir:-

We beg to inform you that we are still awaiting information in connection with real estate for limb and Washington C. E., Ohio, Cynthians and Maysville, My, and Canton and Chillicothe, Ohio.

Yours truly,

Thomas Af Edison Constn. Dept.

By AND

Decembe. 30....

Societe d'Appareillage Electrique,

Geneva, Switzerland,

Dear Sirs:-

Your letter of the 27th. October has remained unanswered until the present time in order that some new types of dynamos which I had under course of construction might be finished. This work has now been completed, and I have the pleasure to enclose herewith the report of our Mr Clark, who is the Engineer of the Edison Electric Light Company, and which report will answer all the queries contained in your communication referred to.

The price of the new 200 light dynamo is \$725., F. O. E. New York, with regular winding, for higher volts probably be \$75., more each.

Trusting that this information will not arrive too late to be of service to you, I beg to remain,

Very Truly Yours,

Enclosure, i.

708

G5 Fifth Avenuo,

New York, December 20th, 1883.

Samuol Insull, Jr., Esq.

21 Burton Croscent,

Iondor, W . C. England.

liv Door Trism11:-

In my letter of last evening I mentioned to you that we had a list of the stockholders in the Williamsport Co... and that we were soing through Bradstreets to ascertain their standing. None of them are quoted. Shaw and young Detwiler word in here yesterday and told us that they were all professional men and were not given a rating. We find that P. B. Shaw, Dr. Detwiler and young betwiler hold about one third of the stock. We are going to send Russell to Williamsport to find out all about this business, which looks very "fishy." They have not yet, as I stated in my letter, paid in my the first instalment, and in our opingon we think the intention of this Company is to spanpe together twenty five per cont of the amount of our contract. after which nothing will be due us until the installation is ready to supply light. Upon our getting this far in the matter they imagine it will be impossible for us to withdraw, and they can make us carry it until they dispose of the large amount of stock held by the above mentioned trio. None of these three luminatios have one dollar to rub against another, and I think we are justified in drawing these conclusions in connection with their intentions. We have not sant out a single order yet, nor do we intend to until the matter has been thoroughly investigated and we feel perfectly satisfied that our mondy will be forthcoming when it indue.

Vory truly yours,

December 25th.

A. A. Cowles, Esq. Secty.

Ansonia brass & Copper Co.

lo Cliff Street, City.

Door Sir;-

Allow us to introduce to you Mr. C. F. Manington, who was formerly one of the partners in our late Wiring Department,

Yory truly yours,

Thomas A. Edison Constn. Dept.

by ajon

Decomber 31st.

3

A. S. | issell, Esq.

2413 Brairie Avenue,

Chicago, Ills.

Doar Sir:-

We have your letter of the 20th inst., and in reply to your Par.1, Q.1. best to say that we are daily expecting an answer from Mr. Shaw in regard to your assisting him in Penna.

In relation to your P.2., we beg to say that the canvass of linexylle has been completed, and we expect to receive it to-

Very truly yours,

Thomas A. Edison Constn. Dopt.

Ву

W

ocomber Sist S

W. D. Rich, Esq.

Bollofonte, Penna.

Door Sir:-

In reply to your letter of the Ath, inst., in relation to the injector at Tiffin, we beg to say that we have discontinued the use of exhaust injectors, and have adopted the "lorting" injector.

Wo will send you a supply of instruction cards, which you can distribute as you see fit.

Very truly yours,

Thomas A. Edison Constn. Dort.

ŀ

'nу

December 31st, 1883,

George H. Bliss, Esq. Gen'l. Supt.

Chicago, 111s.

Doar Sir:-

In roply to your letter of the 23nd inst., in which you state that you were furnished with "t" brushes with "0" dynamos, we box to say that we use "F" brushes in the old style brushholders of the 25 and 36 light machines. We recently changed the brushholders on these machines and used "H" brushes in connection with them. It is now our intention to use double brushes on all machines.

When the dynamos you speak of were tested at our Works we had no trouble with the brushes or brushelders in question.

Very truly yours,

The Edison Machine Works,

. .

December 31st.

W. H. Dwalloy, Jr. Esq. Treas.

Pall River, Hass.

Dear Sir:-

In relation to exchanging the u¹2 x 10 ongine at Pall River for a u¹2 x 12, we beg to say that we will supply you with material and labor as follows:-

7ctal...... 1,235.71

One 8 2 x 10 ongine...... 250.00

Total..... 888.08

This makes the cost to you of the above change \$347.63; but in addition to this amount we shall ask you to pay the salary, expenses and railway fare of our man, whom it will be necessary to send to Pall River to do the mork.

Will you kindly lot us know if this will be satisfactory

2

at the earliest possible moment, Armington & Sims having a great many orders booked, and we may have trouble in getting the $0^{12} \times 12$ engine promptly, and the sounce we get our order in the better.

Very truly yours,

Thomas A. Edison Consta, Dept.

Time

True,

December 31st. 3

Winfield S. Hutchinson, Esq.

53 Dovonshire Street,

Roston, Mass,

Doar Sir:-

I have your latter of the 20th, inst, in relation to powers of attorney for Wn Jose D. Nusbands, and herewith I beg to enclose these decuments properly executed.

kindly acknowledge receipt and oblive,

Day

Docomber 31st. 1883.

J. S. & M. Pockham

Utica. H.Y.

Doar Sire's

In relation to mica, we beg to say that we sent the samples your an Pockham left at this office to the Superintendent of our Works, and had his weigh them, after which he cut them into sizes that he could use and weighed them again, so as to ascortain the cost of the mica to us properly cut. The result of the experiment has been that 3b centa per pound is too high a price for us to pay for mica, such as the sample sent us.

Very truly yours,

The Edison Machine Works.

/1

Jaky

December 31st.1883.

Gustay Soldan, Esq. Supt.

104 Goorek Stroot, City.

Dear Sir:-

In relation to paper fulleys, do you not think it would be a good idea for us to adopt them in future?

Yours truly,

The Edison Machine Works,

By QON

December 31st

P. B. Shaw, Esq.

Williamsport, Penna

Dear Sir:-

Mr. A. S. Fiscell, who has lately been in Knoxville working up the interests of the Edison light at that point, requested us to write to you and ask you if he could in any way assist you with your work in Pennsylvania. We do not know whether you are assuminted with this gentleman or not, but if you desire any information in regard to him and his capabilities, no doubt him leastings could gave it to you.

Awaiting your roply, which Mr kissell requests us to transmit to him, we are,

Very truly yours,

Thomas A. Edison Constn. Dept.

Bv

1.36

December 31st.

Milastin Schwonk, Esq. I rest.

Lt. Carmel, lenna.

Doar Sir:-

In reply to your letter of the 2bth, inst., we been to say that we will have our wireman at kt.Cornel at the earliest possible moment. We have had to start so many stations all at once, and as expert help of this character is security to the same of the same

We wrote to Mozars. Perghann & Co., asking them to hurry your material.

Yory truly yours,

Thomas A. Edison Constn. Dept.

H

December 31st. 3

James Barris, Esq. Secty.

Bollofonto, lonna.

Doar Sir:-

We have your letter of the Seth. list., in which you state that there seems to be a misunderstanding in regard to what you are to receive under agreement for an boo light plant.

In reply to your letter, we beg to enclose herewith wx cories of the 500 and 800 light estimates. You will notice that in each case the amount for the street installation is exactly the same, namely, \$4,056.15, and the map showing the course of our street installation which was submitted with the 300 light estimate is exactly the same as the one submitted with the 800 light estimato. You will observe that the district in each case covers EAS lights, and we prosumed that it was in order to take in all those lights that you requested us to submit an 800 light estimate, instead of a 500 light. The amount of the 500 light estimate is \$14.761.60; the emount we charged you for increasing the capacity of your plant to bor lights, instead of 500 lights, was \$2,310. This brought the amount of the 800 light estimate up to \$17,071,60, but your Company deducted some of the smaller supplies, which they proferred purphasing themselves, which reduced the amount of the estimate to \$16,567.27

We are at a less to understand your statement that your Company have never seen a copy of our 800 light estimate.

In Shaw was given this estimate, and after the Fellerente Company had made those deductions in the minor details, of which we have spoken, he had the estimate typewritten and returned to us, and we have this copy in the office,

The amount of the increase was for changes in the boiler, ongine and dynamos, which all had to be of larger capacity, also for a larger building.

In connection with this building, after our contract was closed you desired it made larger still, and allowed us \$200. for extending it. This makes the amount of our contract with you \$10,707,27

We trust that as far as we are concerned this explana-

Vory truly yours,

Thomas A. Edison Constn. Dept.

Hur

Enclosure.c.

December 31st.1883.

Gustav Soldan, Esq. Supt.

104 Guerck Stroet, City.

Dear Sirt-

We have your lotter of the with, inst. reporting test n

What I want to ascertain is the non-sparking point sharply defined? With same asperse is the position of non-sparking point the same and does the brush have to be adjusted finer to obtain non-sparking point?

Also please lot me know if the new iron gives higher

fours truly,

December 31st.

Charles P. Ivon. Esc.

Post Office,

Pettsville, Fenna,

Door Sir:-

In relation to your canvasses, in future when mentioning tonement houses, will you please simply state "tonement" and not "class thom as second, third or fourth. Please do not take any notice on your canvass of fourth class houses, and also be kind onough not to abbreviate your canvass and call a restaurant or bar "R", but write out in full what it is, and very much oblige,

Yours truly.

Thomas A. Edibin Constn. Dopt.

Documber 31st.

Messrs, karlle & Hall,

33 Congress Street, W

Detroit, bich.

Doar Sirs:-

aware that there is a building on it. We should like to have a carefully figured statch or drawing or this building, showing the exact size incide, also showing the exact size incides the exact size in the exact size incides the exact size in the exact size in th

tion of columns or interior wills, if there are any, also size of floor beams and dustance from contro to contro of same. Are side walls and coilings plastored or sheathed with boards?

Wo would beg to call your earnest attention to the fact that this information must be very accurate, and we should like the plan made on as large a scale as possible. Immediately on receipt of this data we will forward you the Tesilanti estimate, all matters in connection with which must remain in abeyance until we

hoar from you,

Very truly yours, Thomas A. Edison Constn. Dept. Referring to your memo of this date about Shampkiff all I can say is that Armington & Simsman makes the assertion that the piece of the regulator which was reversed was put on by a local engineer, before he arrived there. This is denied by the man who is supposed to have done the work before Armington & Simsman graving Shampkin. Now although theyminates that they were to got ut fault. I see no reason to doubt Armington & Simsman, nor do I see may reason particularly to doubt the local people, except that wann pleo makes a mistake usually tries to cover it up and the assumption is that the man that Armington & Sims would shall to Shampkin would know semething about fixing up the regulator of their onghose, whereas the employee of a local machine show would in all probability know nothing about fixing up such and

S. Ineulli

By. H.

1883. Edison, T.A. - Suppliers (D-83-017)

This folder contains correspondence and other documents relating to suppliers of equipment and materials for Edison and his companies. Many of the documents deal contained for the construction of central stations by the Thomas A. Edison Construction performent. The items filmed contain significant Edison marginalia or provide significant information about the equipment or materials being purchased.

Approximately 10 percent of the documents have been filmed. Routine correspondence has not been filmed.



THOMAS A. EDISON ESQ. (10

NEW YORK CITY :--

585.5255.

DEAR SIR :

TWO YEARS AGO WE BUILT FROM PLANS OF CAPTAIN ERICSSON A STEAM ENGINE WHICH THAS THEEN THE PROTECT TO A DYNAMO AND ENTRY THE ENGINE BEING CONNECTED DIRECT TO A DYNAMO AND MAKING ABOUT 900 REVOLUTIONS PER MINUTE. IT HAS WORKED SO, WELL THAT CAPT. ERICSSON HAS THOUGHT BEST FOR US TO BUILD ANOTHER MACHINE, ADDING SUCH IMPROVEMENTS AS MAY HAVE SUGGESTED THEMSELVES BY THE USE OF THIS FIRST ONE. THE SECOND MACHINE IS NOW FINISHED AND RUNNING AND CAPT. ERICSSON, AS WELL AS OURSELVES, IS ANXIOUS TO HAVE THIS MACHINE TO LIGHT A PORTION OF OUR OWN WORKS AND BENEFIT OF THIS MACHINE TO LIGHT A PORTION OF OUR OWN WORKS AND BENEFIT IN THE REGULATION AND LUBRICATION BEING ABSOLUTELY PERFECT.

Please address ALL business communications to C. H. DELAMATER & CO.



WRITES THIS LETTER, HOPING THAT YOU WILL GRANT AN INTERVIEW AT YOUR ON CONVENIENCE AT YOUR PLACE WITH OUR MR. REYNOLDS WHO WILL EXPLAIN TO YOU WHAT IS REQUISED IN ORDER TO ATTACH ONE OF YOUR MACCHINES TO THIS ENGINE.

SHOPING TO THE ARVERON YOU SOON WE TARE

YOURS RESPECTFULLY,

C. H. DE LANATER & CO.

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Please address ALL business communications to C. H. DELAMATER & CO.

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BALL ENGINE COMPANY. Automatic Cut-Off ENGINES. you toget better beaute Engin Such as we described m will make the following proposition settle is not could you la draw in is for the Effection butich Eletive Engine m of the Electure Or as a Respectively Yours Mickely

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The probability of our doing what me claime on regal you to the Boston Fair. where the superior preformance

of our angue is admitted by all. Please notice the

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but me rafrain from doing Do as me know you must

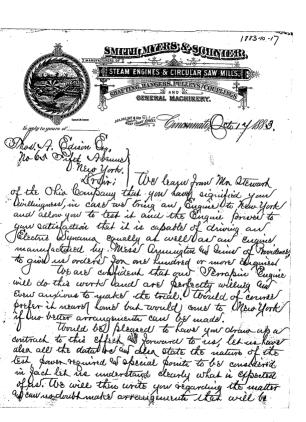
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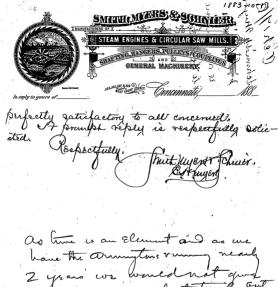
points of our engine me hope you will not overlook

the valve which has flat maring surfaces taking up its own make which is eintamely a very much batter value than a piston value particularly oo when considering

the question of long life of this argine. We shall be glad to Thear from you at your earliest convenier.

Your Truly Ball Engine C





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1883.10-31

BECKER & SONS,

Street, Now York, Och 31 st 1883

.....188...

Dear Sir.



DALL ENGINE COMPANY

Automatic Gut-Off Engines,

GOVERNOR WEIGHS THE LOAD.

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In reply to your bound to Dear Vir. we will ask you whether after a less satisfied that are engine power them now in use we may hope for ton with you or whether your present posters proclude the probability a persite lighty of the sort. You understand that we don't care to inew the expense of a test spency to-Rolify curiosity a be consince, you of a fact if there is no probablity of its reculting in hesinen. In our last letter we gave you any idea of what we explicit to demondente 4- ym. you afeat of a 91/2 x12 which Rize we do not build but would send you 9 K12. In regard 6- pulley you speak of a 56" pullay. He have no pater of that size I have now had an order requiring it.

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ENGINE COMPANY Automatic Gut-Off Engines, Edism mel faythe Vietal statement of our patent Carryer in refrence to the question Do you infringe on armeny his voins, His answer is "m are for for but we will got a well go Elatorally into we lave the only potents Every the principle the mill furnish this information as from as weed Respect Your Walk Sugar

1883-11-02 BECKER & SONS, AND WEIGHTS OF PRECISION.

WALLEY IRON WORKS,
Manufacturing Founders & Machinists,
33-43 West Street

WILLIAMSPORT, PENNA. NOV 26'

Mus Chain Chetrie sufglo,

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1883-11-26 Steam Engines, Boilers and Saw Mill Machinery of every Description. VALLEY IRON WORKS Manufacturing Founders & Machinists, 33--43 West Street. WILLIAMSPORT, PENNA. the herkess as there is anywhere manufactured, if should like to sand you one of their no trial. if it proves satisfacting you to retain it. Inch satisfactory it to be returned at our expense, was hurbers manufacturing in sizes to suit the demand wer can offer you this Engine at 4 the less wife, if you will addressed to sent fra The under these terme please girl as length of shaft you refuire & white arm with Quilor Clerk on englof that. Ither forme are not agreeably please suggest some at we dearing you to tryit. Sindly farm we with repla mere weath colins Ven Richelfully your MCCaleysdeept,

INDIAN MERICAN PAPER PULLEY."
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1883-12-04

Martindale's

PATENT PAPER PULLEYS,

MANUFACTURED ONLY BY



American Paper Pulley Co.

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INDIANAPOLIS, IND.

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American Paper Pulley Co.

MANUFACTURERS OF

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Our Pulleys are stronger, lighter and cheaper than Cast-Iron Pulleys and are infinitely superior and preferable to any Pulley manufactured.

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44			******	17.00	7 00	0.00	0.20	20.00	21.00	23.00	24.75	27.00	29,250	31.50	33.50	37.50	42.00	\$	8
44					9 00	0.00	1,00	10.75	22.00	39.25	37.00	29.25	31.75	3.60	35,25	39,50	43.50	48.00	54.00
46					0.00	10,000	11.00	44 (6)	2,00	20.600	28.75	51.250	18.60	15.60	39.50	44.00	48.50	54.50	60.00
48					0.00	21.000	223	4.60	50,00	25.76	31.00	33,75	5.76	8.25	10.75	45,75	51.00	57.00	63.00
701					1,000	11.70	3.25	0.16	28.00(8	0.50	33,25	36,25	9.00	2.25	45.25	50.00	55.00	63.00	70.00
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Write for Discounts: Special Discount to Dealers.

INSTRUUTIONS FOR OIDSHING Give diameter, width of hoo, size of hore, an each driving the real of the state. Tight and loose pulleys should be crewning face, and the hard Fally furnished with type set access.

A Long Pull(ey), a S' ong Pull(ey) and a Pull(ey) altogether.

WE CLAIM THE FOLLOWING ADVANTAGES OVER ANY OTHER PULLEYS

THEY ARE STRONGER and consequently more durable:

1. In the absence of shrinkage strains, to which cast pulleys are sub-

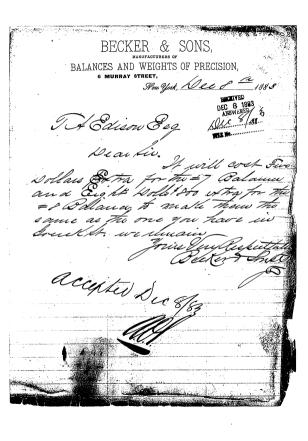
 The discs or centers being solid, there are no weak or yielding spaces as in a pulley having arms supporting the rims.

3. The rims are not fragile and easily broken as in cast

THEY ARE LIGHTER one-third to one-half, than other, pulleys, and can be run with safety at higher speed, transmitting the same power with lighter shafting and hangers.

THEY ARE CHEAPER. From the saving in cost of Belts, Shafting and Hangers; there is no danger of breakage in handling, there being a direct loss in this way in Gast. Iron Pulleys. There is, with a Cast Iron Pulley, a direct loss in the transmission of power, caused by the alipping of belts. This is partially overcome by the ulse of the Wrought Iron Rim Pulley, and entirely overcome by the use of the Paper Face Pulley, the use of the Paper Face Pulley, the belt adhering to wrought Iron, paper or wood much more than to cast from.

Our Pulleys are designed for any and all classes of work, but especially recommend themselves to mill furnishers, millers, wood workers and machinists. They are not affected by heat or moisture, but should not be used for out door work, where exposed to the weather, inless well painted it, least one a view.







KEEP IN STOCK ONLY OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE

PARTS FOR MACHINERY FROM PRINCE SMITH & SON, J. & RECYD, AND TAYLOR WORDSWORTH & CO.

Phoston Mass December 1

Mr. Thomas A. Edison.

Construction Dept. .

Total have to bate

Dear Sir:--

In reply to your esteemed favor of 8th inst supply you with the Harding's speed Indicators in quantity at \$29 net, (our price to sell them single is much higher). could also supply them to you nickle plated, which would cost \$2. more.

We regret that we have no illustrated catalogue, as we should be very happy to forward one to you.

be most hopey to receive your orders, which by cable to insure a speedy delivery



KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER, AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE; SMITH & SON, J. & TBOYD, AND TAYLOR; WORDSWORTH & CO.

OLS ACENTS
O HATTERSLY & CORS
FRATO' LOSES
EXMAN HITES COSS
OTERS A TRESCRICATION
JAMES VATES COSS
CARO COSTINIO.
J. SEFFERSON & CRO.
WOOL WASEES.
TORLOTIM.

J. JEFFERSON & B WOOL WASSESS TORLOTIN, FRENCH BISING, J. PARKINSON TEMPLES. WE SMITH & BR

Boston, Mass Deember 13, 188

Mr. Thomas A. Edison, Constn. Dept.,

New York,

Dear Sir:--

SOLE AGENTS FOR PRINCE, SMITH & SO

WHITE A SONS

We have your favor of yesterday, and regret that we have only a few days ago parted with the last Speed Indicators we had in stock, and it may be a few weeks before we can have a fresh supply.

Just 12 months ago we sent six of these machines to the "Edison Light Company", and you may be able to see one or the other in New York.

Yours respectfully.

By Mundan G

1883-12.14

102 John St. Dec. 14 th 1883.

Mgr. Thos. O. Edison, lanstruction Department, 65-5 th ave, Dear Dir,

I have pleady an order grow med personally by Mr. Codison for 500 the Dulphate you to be few from Iron. Do I understand that you would like a pample below the let it would like a pample

before the lot is made - Kindly explain or oblige - Your truly lohas I. White

fu.m. m.

You delayed so we ordered & ton from Pamers + weyllman However send sample -500 Us to Talliam Courseyman Att and B+17 it 54



Stoddard, Lovering & Ca!

TEXTILE MACHINERY COTTON AND MOHAIR YARNS, WOOL ETC.

KEEP IN STOCK OLIVE QIL, SPINDLE BANDS, COMBING PINS, APRON. LEATHER, AND. DUPLICATE Parts for machinery from prince, smuth 4,50%, J. 4,520, D. And Taylor, wordsworth 4, CO.

OSLE AGENTO
ORATTERIST À DESE
HANTY COMB.
ELARMI HELLE A DESE
HANTY COMB.
ELARMI HELLE AGEN.
THESE A FINISTIANCE AND
THESE ADDRESSE
OND CODMISS.
JUSTERION A BRO.
WOOL WARRENS,
TORICOTINE,
FRENCH BILLION,
TERPLES.
J. PARTAMONN,
TERPLES.
TERPLES.
TERPLES.
TERPLES.
WE SMITTER & BRO.

Boston, Mass December 19,

Mr. Thomas A. Edison.

Construction Dept.,

Dear Sir:--

We just received your telegram inquiring time of his in which we could deliver Indicators.

As we could only guess at it, we have preferred to inquire inquire by cable how soon we could consupon the shipment of it, and will give you our answer to-morrow morning by wire. Should they be in stock, they can probably be delivered in three weeks, otherwise, it may take four to five weeks.

Yours respect fully,

Wer in the thing of the state o

SOLE AGENTO
FOR
PRINCE, SMITH & SON,
WENTED CHAPTER TO THE TAYLOR, WISCOURTS FIL.
T. R. HARDING & SIRR,
OLL & COMPANY NR.
J. WHITE & SONR.
J. WHITE & SONR.

Stoddard, Lovering &

TEXTILE MACHINERY

ONLE AGENTO
ON TERRELLY & DOLL
FANCY LOUIS
ELIXERH HOLL & DOLL
TANCY LOUIS
ELIXERH HOLL & DOLL
THE WATER A DOLL
JAMES VATES & DOLL
LADO COMPILE
J. LEFFERDON & BRO.
WICH VARIETS.
TORLOTIM.

KEEP IN STOCK OUTE OIL, SPINDIE; BANDS, COMBING PINS, APRON LEATHER: AND DUPLICATE Parts for Machinery from Prince, Shith 8-50n, 4.8-t. Boyo, 400 tatuer, wordsworth 4,4 co.

Boston Mass December 21, 188 3.

Mr. Thomas A. Edison,

New York, N. Y.,

Dear Sir:--

We received this morning a cable message from our friends, saying that they could ship 24 Speed Indicators within a month, of which we informed you by wire, and received since your message asking us to order them, which we have done to-night by cable.

We remain, dear sir.

Yours respectfully,

Studeland, Lovering do

1883-12-24 EXTILE MACHINER) TON AND MOHAIR YARNS J.WHITE A SONS. DAERLEIN & CO. KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE SMITH & SON, J. & T. BOYD, AND TAYLOR, WORDSWORTH & CO. TEMPLES. Proston Man X 1883

1883)

тнв

WOOD AND RICHMOND REFRIGERATION COMPANY MAKERS OF

REFRIGERATING AND ICE MACHINERY.

things rage . She filing

CONDENSE WATER-COOLERS (Saving 90 per cent. of Water.) ing is almost adhering of the property capillary all

to pass his edge and nto me boiler of you aus **6**) - 3-29(3)

1883. Edison, T.A. - Unsolicited Inquiries (D-83-018) [not filmed]

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

1883. Edison, T.A. - Visitors (D-83-019) [not filmed]

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.

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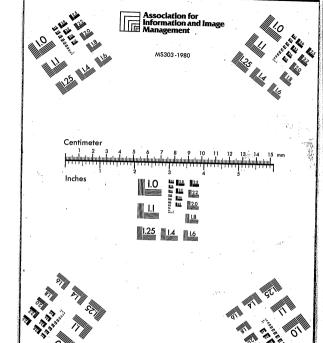
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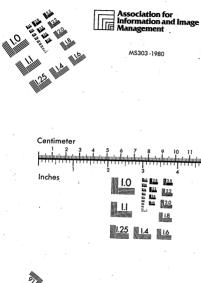
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REEL 65

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D-83-016 [continued] through D-83-019 ("Edison, T.A. - Outgoing Correspondence" through "Edison, T.A. - Visitors")

D-83-016 Edison, T.A. - Outgoing Correspondence

CONTINUED FROM PRECEDING REEL

Soutember 1st.

Sajor Plood Page, Coneral Santger,

sdison 'n Indian a dolonial Electric Co. 1

Jondon, G. C. dingland.

"Boar Sart-

Then to give you below prices for machines, which we are now manufacturing:-

100 light saching 3 400

400 Light Saching 1,500

To are notting one designs for a is light machine, which will cost about 3175; a so light machine which will be sold at about 3175; we are also designing a 200 and 300 light machine, but cannot state what the price will be, until we have got a little further along in our work. Of course the only prices which you can look upon as absolute are those for the 100 and 400 light machines. In the course of a week or so, I can deabtless give you prices of machines of other denominations. All our prices are quoted 2. O. B. in New York, but should any extra packing be registed to charge you for it. In shipping to Empland and the Continent, we are in the machine only our ordinary packing, but I presume if we Mayor

to ship to Australia for you, especially if we have to ship by Peabody's cutters, we shall have to use extra packing.

I also be: to hand you herewith price list of the Bloctric Tube Company for tubing on three wire system. These prices are subject to variations in the price of iron piping and or copper

I will send you a pirto list for lamps by Saturday's mail. I have been unable to got this out, owing to the absence of al Upton, the Manager of the lamp Factory.

I understood from you when you were here, thut you had "obtained from Bergmann & Go. their prices,

Very truly yours,

Rnelosuro

Sopt, 3rd

3.

Charles Batchelor, Esq.

Paris, France,

My Dear Batchelor;-

I find that I did not answer your letter of "
the Buth, June, asking no to explain how it was therewas a cross
on the Mains, in the down town district which the saroty datches did not take care of, and which was only get rid of by putting on engine after engine until a place of tube was burnt right off.

you will remember that the safety catches were only put on one pole of the system. In the first case they are rectified in the inside wire work by using a double safety catch, but the underground system was still left with only one side, consequently, when the grounds appeared the unprotected side of the civeuit a short circuit was inevitable. Do you understand? I savery porr on electrical descriptions, and more depocially when it refers to a subject that I am not really conversant with.

I onelose you herewith depicts of two statishes drawn by Edison, the original of which I have sent to theb, hilan. This will show you exactly what we was at the central statish as an ampere recorder. It is attached to the contibus main in the state.

XXUN

tion. Bradley carefully recorded the merements of the needle and a compared these with the steam eards taken as the same time and them arrived as the exact number of lamps indicated as being on by the movisions of the needle, he then prepared a scale, and attached it to the recorder, so that when a deflection of the needle taken place is will point out exactly the number of lamps burning on the system at that mount. The thing works very well indeed, and it a second interesting to watch its movements. If it happens to be a showery day, and a cloud suddonly comes up, the number of lights but in within a few memoris is very large, as is shown by the deflection of the needle.

Your tenly yours

Englossica

Aopt. 3rd

. Shaw, Daq.

Penna

Doar Sir.

We have again gone into the matter of a central station

lot at bolloronte.

For 40 x 130, price \$450, on Jamb stroot, is the one best

Those.

Very truly yours

Soutomber 3rd.

.

The Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

I have not yet resolved anything from you stating whichter you can and how soon you can ship six # 2 x 10 engines.

All that we have is to the effect that you can shipp three weeks

from the receipt of order. I we wanting to cable to londen on
this point, and would arre you to lot no have the answer immediately by wire.

Very truly your

Sept. Srd. 1868.

Charles 7. Westervolt, Esq.

130 Third Avenue, Cit

bear Sir:-

Referring to your Tayor or the 30th, alte., I think you are in every in stating that I charged you with being dishenest.

I had information which lod no to believe that momentum of Very possible character had taken place with relation to the pay-rells at Goorch Street, and by informat commented your major with it.

I am glad to hear, hewever, that you are perfectly imposent, and that if anything ordered an relation to the above matter, you had no co-mountain whatever with it.

Very truly yours.

Sept. Srd. 17 63

A. Stuart, Esq. Secty.

Ohio Edison Cloetrie Installation Co. Cincinnati, Ohio.

Dear Sir;-

Referring to your letter of the soth ulto., I should "
The to have pointed out deere we had a 100 for cent on the items in the lique estimate. I think there must be some error as to this matter, as our figures were all just at the lowest possible point to enable us to get our "making".

Vory tral/ yours.

Sopt. Sad

1.5

C. W. Wilber, Esq.

Webster, Hass.

Doar Sir:-

Your various letters to hand.

Will you ploans addorten at what time the library at Mashburn pair, at Wordenson, lights up?

In future we shall be glad, themever possible, if you will save us the time of the lighting of all published.

I as unable to tool you exactly where you will go to after after you have canvassed somethings, but will let you know in the course of a day or so.

Vory truly yours

ory ording yours

Saptombo



I. W. Sorroll, Msq.

140 Massau Stroot, Cit

Doar Sir:-

Referring to your favor of the Clat, I have heard from Mr. Conkling since you may had, and sy letter to you was in consequence of a communication from him stating that he would det for

Yery tridy yours,

15

Soit. Ord.

Sponeor Bordon, Esq.

r. c. box, anii,

Boston, Bass

Doar Cir:-

soul you by this mail, under separate cover, map or Servestar with red circle marked thoroun.

Thouse have the tree of lots obtained, that are for salp within the area marked, and send same to us, together with the equipment herewith.

We want the lots marked distinctly on the map, and shall be glad to have rull information as to the sizes of each lot.

The price of same, the nature of the size whether there are any buildings on the lots, and if so, the character of same and size.

Wo are waiting for the location of contral stations at Morth Adams, and Pittariold. Please let us have those as soon as possible.

Vory truly yours,

Sopt. 3rd.

3

Major Flood Page, con'1. Manager,

Edison's Indian A Colonial Electric Co.

Jondon, R. C. England.

"oar Sir:-

You asked for a statement, when you were here, of the number of Avaington a Sims engineer used by us.

I onclose you a list Which gives you the engines shipped up to July, luss. We are ordering these engines right along, so that this list, up to this date, is inecephate.

Yory truly yours.

September 3rd.

3

Goorge S. Jadd, Esq.

San Francisco, Cal.

DugirDums Sir:-

I find that your letter of the flethally has been dislaid, hence the delay in replying to amic.

I as \$2500 to you for the Post Office Order for 35.

I presumed that you had forgotten about the nation, and know that I would hear from you as soon as it occurred to you.

I enclose you herewith a memorandum propagod by her.
Ediaton as to conversing. If it does not give you all the information you desire in relation to this matter, please notify no
as to what further you would like us to explain, and I will answer
you broams!?

Yory truly yours

P. D. Dyer, Esq.

St. James Notel.

Springfield, Chic.

Dear Sar:

Infuture planse give megaposable, the time of lighting of all public halls, libraries se., as this information will we very dsorul to as:

York truly yours.

Santomber 3rd.

Edison Lamp Co.

Harrison, N. J.

Doar Sirs:-

Referring to your Mr Wolzer's letter of the 30th, ult,.

I think it would be advisable to stick to by . fibres and try

and work up the life.

Yory traly yours,

Sopt. 3rd.

Charles T. Raghes, Esq.

J. S. Notal,

Mowburgh, H. T.

Dear Sir:-

I sond you by this mail map of howbargh with two circles thereon, and shall be glad if you will let us have a memorandisa of the lets for sale within that area, giving the size and price of each let and the nature of the soil, and whether there are any buildings on the lets, and if so the character MR NEWS and size of sans.

It would be preferable to have the control station inside of the circle AA and if not inside of the circle BA.

In sending the above information, please return the map with the lots marked distinctly thereon.

Very truly yours,

Sunbury

Sopt. 3rd.

W. S. Andrews, Esq.

Mational Hotal.

Shenokin, fonna,

bear sar:-

If the summary engineer should get more, could his brother run the station?

no you think that the engineer and his brother could answer the questions with relation to the engineer and meter work, which in alicent sont you and which you answered?

Can you give me any Thromasion of the total number of lights connected at Sunburys

I have belographed this horning to im Harr asking him to sould holls the virguan, who is now at Sumbury, to report to you at Sumbury, it is an is shauchin, but pending in Educate a arrival there, I do not want any arrangements said with a local lain, as in Educate vision to choose one himself. If he touty desires some houses wired, you had better ask him to engage such a man as holls would wish to assist him, say a local compensation. This engagement should not be of a penament character, but only by the day. I want you to see that holls does his work well and economically, and also desire "that you should look up some jubium carpenters in Shambian, so

that when he Edison goes shore, he will have little difficulty in picking out the man he wants.

On Honday I shall send in Journard to take the place of him Comant, as I want Comant to go to Projectin Tuesday night.

Yery traly yours,

Sout-Sed-

J. R. Campboll, Eso.

Bellefonte, lonna.

Dear Sire-

Referrance to your Tologram of vesterday's date. I begto send you herewith another man of bellefonte.

The central station we have chosen is on lamb Street, lot 40 : 320.

You will have to get a permit to run our feeders from the back of the lot to the wed lines, and the course our reeders will take is indicated by the white lines on the name.

Please soo if you can got this pormit, and return the may to us at the earliest possible moment.

We will advise you by telegraph where to go after you got through at Bellefonte.

You will notice attached to the maps sent you some remarks by ar Spargue, which will explain to you what permits are required, in addition to those stated to you when you were here.

Very truly yours.

3

Major Plood Page, Gen'l, Manager,

Edison's Indian & Colonial Electric Co.

Jondon, E. C. England.

Dear Sir:-

Enclosed horostic please that statement of Mr. Edusen as to convessing terms for contral station purposes, alsomatatement as to the progress of our business in America. If you desire any further information on those points, please information and I will write you fully as to the Matter.

Very truly yours.

Enclosuro, d

Boyt. Grd. 1550

C. D. Willard, Seq.

care be Phonson, Willard & Go.

Forgentown, K. J.

Dear Sir:

Goodd you take some of the cores which we have at "Goord Street and hazzer then down so that they would be thicker and shorter? If so, on that torus would you do this?"

We wish to alter over a manber of our W and I machines, and in order to do so economically we shall have to get the cores hashered down to shorter lengths of great dissect.

Very truly yours,

1883.09.03

September Sre

John W. Hagb. Esq.

via bansoni, ld A,

Hilano, Italy.

Dear Sirt-

I find your letter of the lat. July has been everlocked.

If the Tealian company will give you from about to a Sisson a year, I donnot think you would be doing better if you took from these a three years contract.

I thank it would be a great mintale to use designilators with relation to the stateon. If you will communicate with mintehelon, I have no doubt he will give you all the inversation you may desire on this subject.

You should use an ampine motor to show the number of Eights on the system at any fixing time.

I onelose you herewith rough shotch of an instrument that we use for that purpose, which works you well indeed.

Vory truly yours.

Sopt. 3rd. 1983.

H. C. Blackmar, Esq. Supt.

H. Y. Hica Hining Co.

Custor, D. T.

Door Sir:-

Your very abusive letter of the 17th, ulter, addressed to my jorks, has been turned over to me to reply to, in consequence of the gentlemen who nonducted the correspondence with you having left my service.

I (have called for copies of the whole correspondence with you in relation to this matter, and will embeaver to settle it immediately the same is placed in my hands, as it is very distraction to no to be compelled to have dealings with any one who desire the verdency of statements emmatting either from my own efficiency the office of my shope, the paraor machine works.

I do not know what has noon done in the matter recently, beyond your letter of the 17th, again, so as unable to may anything further than this at this Witting.

Very truly yours,

Dynamos

Sont Ow

3

Messrs. Bergaam - Co.

202 Avonac B, City.

Dear Sirs:-

BR dadrovs writes as follows Ath Foldtion to the new house changing switches:

"On further consideration, I think the connecting justs on double main switch should be made on sense pattern and size as "connecting post on head-board of "N" dynam, as there will be "three wires running to each of them, and it will be best to claim?" "all three."

Will you see that this is done.

Yery truly yours.

Postento.

Sept. 3rd.

Charles Tatchelor, Esq.

Pavis, Franco.

Done Sir -

I wrote you some which hack in reference to Italian patents, and you sent a form which is not exactly what is required by Ws.

What we want to got is a copy of an official payor or order issued by the Italian Government in response to an application for prolongation of a patent.

Very truly yours,

Alfranto este pe de la

Sops, 4th.

George M. Hopkins, Esq.

C-O "Scientific American" .

261 Broadway, City.

Doar Sir;-

I have your letter of September 3rd, and in reply would bee to state that you can use by mass as reference.

Trusting that your vonture will be successful, I remain,

Tak.



Danbury

1883-09-0

opt. 4th. 3

u. W. Milbor, Enq.

Webster. waso.

Doar Sir:-

I wish to call, your attention to some omissions which you made in the canvass of manbary, in order that you may rectify them in ruture:-

YURNER HOUSE. An old roundons of the place informs me that this is a large and first class hetel. You fail to monition it in your canyage.

PATEROAD DEPOY. You only show two lights in the telegraph office. has about the waiting rooms, superintendent's office, platform de.y

OPERA HOUSE. You rail to montion the number of light or the approximate time of burning.

INMELTIMES. When there are only two or three deallings in a large block of say 1000 root, you should always state about how many root those houses are situated from a certain corner, as it is more than likely that without this information the lights will be improperly located. It is not necessary for you to give us the exact distance, for all processary purposes you can arrive near enough to it by packing.

In crossing railroad tracks, bridges or may other hoticoable land-marks, please mention them in your canvass. I notice

14

that you generally mention railroad tracks, but you omit to say anything about bridges.

When there are no houses on an alloy at as unnecessary to take up three or rour paper to may, "cant side nothing, north aide nothing, west side nothing." If you would sumply make a note at the top of the paper at would amover.

Yor/ tral/ yours,

S-b,

Sopt. 4th.

3

James Swinburne, Esq.

6 Normanby Torrace,

Gatoshoad-on-Tyno, England.

Doar Sir :-

I be: to acknowledge receipt of your favor of the 21st.
ulto., and note what you may about the double sinding of dynamos
and thread curbons.

In reference to the former, I used those doube dynamics 3 2 years ago, and my patent is about a year old how.

We have made thread curbons but profer usans bumboo.

I remret to say that I am anable to avail agent of the opportunity of securing your very valuable services, as I have no position which I can offer you.

Yor's truly yours,

Jak.

Sopt. 4th.

Fad. Sprague, Enq.

Hotel Falmer,

in ock ton, mass

Boar Sir:-

I have sent you by express this morning two maps of haverfull, one boing your determination and the other a determination made by an elundrum,

I wash you would compare whose and let me have your fanal descrimensation, resurning both maps.

I would like all involvation from you to be given in full detail, so that nothing may arise that will provent our going right ahead and gotting out officiates after maps have been received from you.

Very truly yours

A

Sojt. 4th.

r. J. Spraguo, gaq.

Botel Palmor.

Prockton, Hass.

bear Sir:-

I some this sorning by extrees supe of Regine and Villiamspore for your descriminated,

it will be necessary to decide in each case upon the lot host suited to our purposes.

Please let me have this back grain at the earliest possable moment, as we are being prosped for estimates.

Very truly yours,

Sopt. 4th.

P. D. Dyor, Esq.

St. Jemos Notol,

springfield, Ohio.

Donr Sirt-

I have your letter of the let. inst.

It sooms pocular that the towns mentioned by you should

hg dend toyns.

Shall be glad to hear of the progress of your canvass

in Springfiold.

Alexander more

89

Edison Electric Thismastine C. .

lawronee, Smar.

Some Sirt-

I me in remain of your favor of your crass, and in really would may that on Theold telephoned to benymment a seprement, but they must have omitted to may informed you of the fact.

to shall commone the shipment of taben in about three tars, and shall start lagare then as soon as a sulfletent masher as soon me a sulfletent masher as so been research as laurence to start the non-on-

Vory truly yours

3

Sopt. 4th.

P. S. Shaw, Esq.

Williamsport, Ponna.

Dear Sir:-

7 mg just in receipt of your telegram of to-day in reference to estimates for Williamport and Bellerente.

We are pushing those to the utwest and hope to send them early next week.

Very truly yours,

Zak

Sept. 4th.

E. H. Dord, Enq. Trans.

Edison Electric Thuminating Co.

laurones, Hass.

"Door Bart-

T have your letter of the lat. Inst, and in reply would be to state that I will retain the temporary fixtures.

T regret exceedingly the delay that has occurred in finishing the lawrence Station.

to will commonen shipping tubes this week, and work will be proceeded with as quickly as possible.

Vory truly yours,

31

Sont. 4th. 1884.

Spencer Bordon, Esq.

F. C. Box 3321,

Boston, Hass.

Dour Sirt-

Referring to your favor of the 1st. Inst, I am oblined to you for the assistance you offer.

We have, however, obtained in Soldan(formerly in Clarkes assistant) as somerancement of the Worls.

an insull has not the Militor of the accounts in hund, and has had an expert working on those for a week. I am glad, however, to say that there is nothing wrong with them.

Very truly yours,

9.

Sept. 4th. 1883.

Charles Batchelor, Esq.

Paris, Franco.

sy Dear Batchelor:-

Yours of the 20th, came duly to hand,

You will have received a latter, subsequent to mine of the 4th, ulto, which will rully explain matters at the Edison Suching Works.

What I referres to shoul you were ever here was that in Edison had given bomin a 7 per cont interest in certain work, by which bom made about \$9,000. or \$10,000. The centract work of this shop, which I referred to, is the piece work, on which the same have binded a very great deal of money. So far we have been unable to find out whether bean had any arrangement with his men by which the got a share of this money. However, we had sufficient other matters to show Edison that it was necessary to give boun the "G.S."

I may say that I have obtained a release from Dean, by which the amount still due him of the arrangement Edison made with him Is whood out. We save 57, Com, by this release, which will go "In a slight measure towards what the Edison Muchine Works has light by Donn's dishonesty.

You will see that there is no necessity to have Edison the the advise to take strendous measures, mentioned in the latter and of your letter. He had already taken the advice before your

Sept. 4th. 1663.

....

in kninger i

3

George H. Blans, Esq. General Burs.

Ghacago, 711s.

Doar Sar:-

I have your letter of August Seth, with enclosure from SE A. I. Smith, in relation to the inaccuracies in the blue print of Appleton.

will you planse ask the President to make the corrections he speaks of on the many

I would suppose that you should not buy a lot until you first consumments with us and sive as an experimenty to calculate whether it would be a good position for our control station, as you might jurchase a lot watch would raise the cost of the conductors to a very high figure, owing to its location.

Will you please herry forward the information asked for about bound lots on August 19th., also send us a map or Appleton as soon as possible.

Vory truly yours,

Zak.

Sout. 4th

Stokeor Burden, Car.

F. C. Box 3-331.

Foston, Bass.

Door Sirt-

I have your losser of the les, September,

As you desire it, we will leave all matters in connection with the varion at hall diver to yourself. The should wire for a 200 ona leap, and in places where there are 100 lights and over, you should but in two suparate systems, so that we can take our-rent off from both the A and it side of the three ware systems.

Very truly yours.

Jak.

Sept. 4t

3

Charles Batchelor, Esq.

Paris, Franco.

Dear Sir:-

I have your favor of the 20th, and in reply to made would may that the scener you can loave Paris the better.
There is planty of work here to do and very few of us to do it.

I am going to write to the Parts Company offering them lamp's at lower prices.

Yory truly yours

Jak

365 Tr. 1

Mosers. Bormann & Co.

293 Avonue B. Caty.

Door Sirs:-

I am in receipt of a letter from bir satchelor, under date of August 7th, in which he states that he has reveryed a bill for six are lights complete with globes and carbons, value 82-40. 1/320 .

. He wishes to know in these are Un nesestare lights, and says if they are, it was understood between Mr. Mavarre and himself that these lames would be sent as experimental ones, and he was not oxtected to pay anything for them.

Please let me know what I shall say in answer to Hr. Batchelor.

Sept. 4th.

3

P. B. Shaw, Req.

Williamsport i enna

Doar Sir:-

Mall you ploase hurry forward the information in Yelforenes to lots at lock haven and Romove, wont you about August 10th

Mould it not be possible for us to got information of this nature in a shorter time? " It soums to be that a month is a good while to here, a may, in order to give the information we ask for.

Very truly yours

Jak.

Sopt. dt

P. B. Shaw. Esq.

illiamstort, ronna,

Dear Sir:-

1 have your latter by August Blac, in reference to astimute for Williamsport.

Who electrical determination for this place is now bearn made and the estimate will he bont you in a very short take.

Very truly yours,

Tak.

3

A. Stuart, Esq. Socty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Bear Sirt-

on August 10th. I sent you blue prints or hamilton and convectown, and on the lith. a blue print or Vashington C.H., asking information in relation to lots. On the Eard, of August I again wrote you asking you to havey this information, as we were waiting for it and could do howhing until it arrayed.

Up to this grating it has not come to hand, and I as under the impression that some delay has occurred with which you are unacquainted. Will you kindly look the matter up, and have those maps, with all the impersation on them, forwarded to me at the carliest possible measure, as we can do nothing towards getting out an estimate until we receive this information.

Yory truly yours.

Jak

Sept. 5th.

Messrs, Hale & Walcott,

30 Court Stroot,

Roston, Hass.

Door Sars;-

Your lotten of August 20th, addressed to me averener.

P. Lowrey, has been referred to me, and an reply T beg to state that I have heard nothing from Anders. If you will rever the commission to me T will see that Wilton F. Admen deposition is taken.

Vory truly your

Sopt. 5th. 1888

Gustave Soldan, Esq. Supt.

Edison Gachine Works;

104 Goorck Street, City.

Dear Sir;-

wall you planno have propared and sont to me a statement showing the number of areastures you have on hand, what
machings they are for and whether class A or by X also want the
Tist of unfilled orders, or which you should knop a copy.

Very truly yours,

:3

A. Stuart, Esq. Secty.

Ohio Edison Clostric Installation co

Cincinnati, Chic.

Doar 11:

Those to asknowledge receipt of your favor of September

In reference to an estimate for a 1000 light plant, it is impossible for us to into an estimate on a plant of that size, as we have no tipe of diname or estimate that will answer. We can send you an estimate for an 100 light plant or a 1000 light plant. If you will let us know which one or those will be best suited to your purpose we will have it forwarded to you at once.

Trusting that your offerts in regard to Fiqua will be successful, I am,

Yours very truly,

Jak

Greenfield, Esq.

2888 Avenue B. City.

Dear Sir:-

established and use noon as consequently now that on Blackwells Island, Wards Island and Bandall Island.

:

Frank S. Marr. Esq. Troas.

Edison Electric Illuminating Co.

Sunbury, Ponna,

Door Sir:-

Mill you be kind enough to lot me have a statement showing the number of consumers of electric light in Sunbury, also the amount of their monthly bills?

I would also like a statement or the monthly expenses or the Sunbury central station.

I would been to remaind you that we are stall without a check for the balance due upon our contract, (85,498.)

Very truly yours,

Iak.

Soutember 5th.

F. J. Sprague, Esq.

Notel Belmont,

Brockton, . : nos.

Doar Sir:-

I have your letter of September 4th, and in reply would say that I have ordered the wire, blow pipe and rubber turing to be forwarded to you at once.

Thereforence to solder, the can y u not get this at some local store and charge it up in your expenses?

They order on Priosi to ship you the insulating tape

I also have your softeness of this morning, and have forwarded by express a blank chart of Fall River.

As regards inside ciring, I telegraphed you this morning that we were attending to this ourselves.

. Very traly yours,

Tate,

. .

Fig. Compbell, Esq.

Ronovo, Ponna.

Door Sir:-

I was presented this morning with a draft for \$50., drawn by you at Bellofente, Fa.

I was under the impression that I explained to you one overning in the effice here that it was only under exceptional circumstances that I allowed may of my characters or other travelling employees to draw upon Me for themey, owing to the confusion which these drafts cause in the effice, even when drawn at one day's sight. I only extend this privilege when there is Me with money.

If you were to send me your expense account with a little regularity, it would enable no to have a better idea of how your finances stand. I have only received one expense account from you since you started out. These statements should be made to me on the 7th, 14th, 21st. and 20th. day of each mouth, and I that in future I will receive them from you in this order, and that you will make no more drufts, except when directly afternized to do me.

Very truly yours,

3

P. B. Shaw, Esq.

Villiamsport, : onms. Dear Sir:-

Tai in receipt of your favor of the 5th, inst, in reference to the master of lights at lock Eaven and Renovo.

The actual member of lights devend by our district in lock wayon is 1,600 and in Senera 730 lights. I would therefore put a 1,000 light plant in the foreign place and a 300 light plant in the latter.

Vory Truly yours

Tolly

Sept. 6th. 1683.

The Edison Company for Is lated Lighting,

Go Pifth Avenue, Gasy.

boar sire:- -

Recomming to your requisition 1,1828, under date of soptember ith, asking is to require one "He areature from the Boston "Herald", I beg to inform you that this areature has its shaft journal on the pulley said budly out, and it will necessitate turning off, and consequently the bearing boxes now in the machines will not be available. It will therefore be necessary for its to make a new box for the journal, and I shall be glid to know if I have your authority for going shoul with this work.

Yours truly.

2,1

Set t. 6th. 1863.

Gustave Soldan, Esq Supt.

Edison Haching Works,

104 Goerck Street, City

Doar Sir:-

I am in receipt this morning of a latter from the Genoral Panager of the Isolated Compuny stabile that the armature sent to Baltimore proved to be too short for that mechane, and will have to be returned. The pillar blocks, containing the phospher brouse bearings, will also be returned.

I believe for sont four pounds of Habbitt metal and two mots of Bubbittboarings, for which you had no requisition.

Was there any other material sent not covered by an

order?

Yours truly

Sopt. 6th

à .

P. B. Shaw, Esq.

Williamsport, Jenna.

Doar Sir:

I box to acknowledge the receipt of your favor of the inst, and in reply would say that I will do all that I possibly can to send you the estimate for Bellefonte on Saturday morning.

Williamsport & now boils determined, and it cannot be returned from broad ten, where I had to send it, and an estimate made out and forwarded to you before either Menday or Tuesday, but you can rest assured that I will do all in my power to Turther the work.

Yory truly yours.

Tag.

Sont, Gth.

Moners, Babcock & Wilcox

30 Courtlandt Street, Gity.

Door Sirs:-

Enclosed please find agreement in reference to our

Very truly Jours,

Enclosure.

Sept. 7th. 1883.

J. Nutchinson, Esq

016,

Dear Sir:-

I bent to give you the following inconsistion which you asked for in reference to the 25 light dynamic-

The height from the floor is 35 2 inches, size of bedplate 31 x 17 2 inches, the puller is 3 inches in dissect, with 4 inch fage, and the armature makes 1900 revolutions per minute. Yory truly yours.

1

Sopt. 7th.

Honry A. Clarke, Esq.

5 Hoon Building.

Halltamore. Hd

Door Sir:

I see to emplose you horougth three estimates for fire 1800, 2400 and 3200 lights, and assembling to 837, 271.36,

In making these estimates I have spained by meaning to reduce our figures to the lovest possible studiard. I wish, however, to specially stipulate that in the case of each estimate our bid for the street installation is based upon the assumption that your despeny will obtain for us the necessary permits to run our maths and fooders according to the red lines shown in Exhibits and I. Some you under separate cover.

Referring to our estimate for 1600 and 2400 lights, you will notice that the street installation (1706 a capacity of 3001 lights, and in both these cases the station is no arranged as to allow you to at any time increased your capacity to 3200 lights.

You will notice in EMMER'S A that our mains stop on the north side of Twelfth Stroot, Between Tassarras and Peach Stroots.

In our estimate for 18200 lights the street installation
cannot be of a capacity for 3011 lights, in accordance with the rad
lines shown on the may marked Exhibit B.

I would drain call your attention to the matter of permits, in accordance with the red lines shown on our exhibits. Should you fail to obtain any of these, and by this means cause any additional expense, it would be necessary for us to charge your company with it.

Trusting that these Will boot your requirements, I um,

Sept. 7th.

F. J. Spraguo, Esq.

Hotel Belliont,

Brockton, Bass.

Door Sir:

Enclosed please find man of Belleronte, Pa, which re-

dures a new determination according to the red lines.

I also enclose all your in reference to that

Very truly yours,

Eneldeuro

. Topt. 7th

Charles T. Bushes, Esq.

U. S. Hosel,

sowburgh, H. Y

Door Sirt-

I ben to acknowledge the receipt of your rayer of the Sth. inst, and in reply would say that plot 16.2, west of Bentmany Street and north of Third Street, is the most desirable location for our contral station. You state in our letter, however, that these lots are on the side of a hill. I should like to know if the supposed of rock which would require blagting of whether excavation could be made with pick and showely you might find out from some local contractor what he would the charge per cubat the reduct of the layed of the street.

Please let me have this information at the darliest possible mement, so that I can be about With the estimate.

You truly yours,

Tak

S. B. Eaton, Esq. Prest.

Edigon Electric Light Co.

City.

Doar Sir:-

contract and your asking by opinion as to the deceptance of the proposition of the Utica largetors to make a contract with me to put up the plant there for \$27,000, the balance of my estimate (about 30,000) to be paid by the light Company, I wish to place on record my objection to this course being pursued in view of the fact that you propose braining the matter before the Executive Community for first solutionant.

The proposed arrangement would be a good one for the "Construction Repartment", but a very objectionable one, in my opinion, for the Light Company to accopt!

I consider it far better to allow the Utica Company to fall through, rather than have the Light Company accept such a proposal which would most certainly projudice their future business, whereas the mailure to close the Utica contract this Fall would have, under the worst circuastances, but a temperary effect on our business.

Yours truly

Sopt. 7th.

. 3

Thomas A. Edison, Esq.

65 Fifth Avenue, City.

· Door Sirt-

I shall be glad if you can make it convenient to attend a mosting of the Board of Wirestors of the Edison Telephone Company of Europe, to be held at the office of measure R. L. Cutting & Co., 10 william Street, at 1 F.M. on Tuenday the 11th. September.

The purpose of the Eddfing is to consider the arrangements with Col. George E. Courand and the Edison-Gover-Ball Tolephone Colpany of Europe.

C61. Courand is now in the City and will attend the meeting and explain the state of the Company's business.

Yory truly yours,

Prosident

Edison Telephone Co., of Europe

Sout, 6th

.3

A. A. Cowles, Esq. Secty.

Ansonia brass & Copper Co.

19 Cliff Street, City.

Doar Sir:-

Would it be possible for you to furnish us with some of the cable for inside house string, as per the last sample you sent us? We want some very body to use in connection with our central station work, and would like to have it if possible before you shat down.

We require about 750 lbs. of No. 15, about 300 lbs. of No. 18, about 300 lbs. of No. 14 and about 200 lbs. of No. 12.

Very
We shall doubtloss need a good donl sarre of that shortly.

Will you please lot us know by bearer what you can do in relation to the matter?

Yory truly yours,

Jag

Sont. 8th.

.

Spenicer Bordon, . Esq.

P. O. Box, 3311,

Fostoh, Has:

"Donr Sir:-

in han to acknowledge the receipt of your favor of the sthe inst, in reference to Bean.

Transpuel as you have sont non to trouble further of in Carrason, we prosume there is no need to trouble further about the matter.

Yory truly your

Tale

Sopt. Utl

A. Stuart, Esc. Socty.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Door Sir:-

To have your letter of the 5th. September.

We have no 1000 light plants (unit), and we cannot very well gays you an estimate for a 1000 light plant at present.

We think it would be a fatal error on your part not to make provision for future increase, as if you pursue that course the expense of extending your plant will be considerably heavier, than if you gut a plant in new with the intention of increasing it later on.

Yory trul/ yours

Tak

3

A. Stuart, Esq. Mosty.

Ohio Edison Electric Installation co.

Cincinnati, Chic.

Door Sir!-

We have your letter of the ith. September, with relation to our prices which you torm very high.

You are entirely in error with reference to our prices and one with the salected on hollers and one was the large tried error/poillor, and find that the salected a wilcox holler is the only one suitable to our business. It would be absolutely impossible fordyou to purchase it for the race you mention. "Ordinary return flue beiler are entirely unclose to us.

with relation to omethos, we had considerable experience "Alth different classes of engines, when we first started our busimoss, and as the result adopted the Avaington & Sims engine, which, considering the results obtained from it, is by for the chougest in the market.

Very truly yours.

Sopt. bth.

F. J. Sprague, Esq

Hotel Bolmont.

Brockton, Bass.

Don' Sir:

We ber to acknowledge the receipt of your favor of September 3th., and are obliged for the suggestions contained therein.

With relation to anything in connection with the station, whother it is includ wiring, automatic regulators or anything else, we wish you would be kind enough to make suggestions to this effice only, Anamauch as you were sent to breaken to station, in which you authority to deal with other work. We would much prefer that you should discuss matters butsideed your province with us and not with Mr darrison or any other worken gon-times with us and not with Mr darrison or any other worken gon-times with your yaluable experience may lead you to make, and should you think it desirable for any information to be communicated to the Garrison, if you will inform us of it, we will have it that from here. We shall esteen it a favor if you will pay particular attention to the above instructions.

As regards inside wiring, as Mr Carrison has taken upon himself the responsibility of ordering son from Boston to do this work, there is no necessity for us to deal further with the sub-

In relation to the matter of men to assist you in wiring the station, we do not see the advisability of going either to "New York or Besten to find them. We think one man would be able to give you all the assistance you will require. You could break in" a local carpenter in a short time, and thus save a great deal of unmocessary expense. Then let Androve was starting the Sunbury contral station, he only required one had to assist him, and we prosume that you can work with bifulat occording.

CHAPTS. We note Your remarks about forwarding you clean charts, and will in the future see that your vishes are complied with.

fail to understand your remarks in reference to auto-

the are certain that we have endored all the switches to exist ches. We are certain that we have endored all the switches necessary for brock ten, and (for your information) we have ordered as follows:-

I Proper Switches, 10 now style house changing switches, I now style plug switches, 10 small plug switches, 3 dynamic changing switches, 0 small plug switches for lightning protector, a fund when

Sopt. Btl

4 Mo. 600 plus switches, 2 inch. and 1 double dyname changing switch of new design. The bank of test lumps requires 2 large plus switches and 10 mail plus switches of different design. These switches were evidenced on an Andrews experience at Sunbury.

It is our desired to Way's uniform electrical connections for all our stations, and if you are unacquainted with the fixtures which I have decided upon, and which experience has proved to us to be the best for our business, we shall be very glad to give you what information you want at any time you may ask for it.

Is the broakdown switch you refer to the one designed by in Androws (the bruble spraine Changing writer)

We wired you list hight requesting you to send two determinations of Wall River, and stating that we had ordered all the wire which you wanted. I am notified this morning, by the Western Union Telegraph Company, that you left Brockton last hight for New York, and that western is undelivered. I presume, however, all there is some matched in the matter.

We wish you would very kindly boar in mind the remarks
we have made in reference to suppost tons. We are only too glad
to receive ideas from any source whatever, as longues their flow
is differed to this office, but we particularly wish to reserve to

1883-09-08

ourselyes the privilege of distributing those ideas among people only indirectly connected with our business, as the improper use of them may caule us very serious inconvenience.

Yory truly yours,

JA,EJ

- 3

W. S. Androws, Esq.

Sharokin, Ponna

Dear Sir;-

Y beg to acknowledge the receipt of your favor of the Ath. inst, and note what you say in reference to the Sunbury engineer and meterman.

I am having printed copies made of the dynamo questions and answers and "instructions", and will some you copies as seen as I receive them from the hands of the printer.

Vory truly yours

Jak.

Sopt.Eth. . .

Charles Datchelor, Esq.

Paris, Franco.

My Doar Batcholor;-

I have your letter or August 7th, and have been obliged to delay answering it in order to obtain information from MnyNormann in reference to are lights.

That gentlesses sugar that he received an order for those large from you erally, and that he only known you in the mister, but if the mayare wishes to have the charge transferred to him, he thorograph will do so. The large referred to are in Moses patent.

Regarding dynamor, our "IP machine gives 400 ampores;
we are winding with larger wire and will get free 450 to 37;
ampores easy without any other change. We are running, with perfect success at louisville, 14 "IP machines, with a constant load

You can tell Bailey that, taking in costs, we will discount Hopkinson and go him ton per cent better on anything he can

Yours very truly

Ĵ.

Sept. 8th

h.

Goorge S. Ladd, Esq.

222 Sansome Stroot,

San Francisco, Cal.

"Doar Sir:-

I have your favor of August 30th, and in reply best to state that nicked as a conductor is seven times were at the copper and four times more expensive. MrBurbage has no authority from us to make a statement that a nickel mine would be of great value to for electrical and telegraphic purposes and that it is superior to copper as a condustor, as such is not the case.

The instructions for canvassing towns in the interest of

Very truly yours,

Tak,

Sopt. btl

3

Societo d' Appareillago Electrique, Genava, Switzerland.

Dear Sirst-

Noferring to my contracts with meanrs. Blodormann, swittendaming the pulse with reference to the introduction of my system of electric lighting into Switterland, Thereby accept and ratify Article Seventh of the Statutes of your Company concerning the transfer consented to and accepted for the price of 145,000 france, and I also accept and ratify the rest of the Statutes of your Company.

Yory truly yours,

Sont. 9tl

3

Mossro. Bergmann & Co.

292 Avenue B, dity

Dear Sirs;-

Please send me by bearer ten (10) copies of your estalogue and give me your best rate of discount for our Swiss Conpany. They are at present buying their material from the London Company, and I have no doubt but what I can not their trade for you if you will put your discounts an high as possible.

Vory 'truly yourn

Jaky



2l, St.

Sent 700

A. Achard, Esq. Prest.

Societe d'Appareillage Electrique,

deneva, Switzerland.

Doar Sir:-

Referring to my lotter to you of this date giving prices, since I wrote that letter I have received from downs. Refragamin & No. the following:-

and will agree to furnish goods in our catalogue to them at thirty (30) per cent discount, excepting cockets, cut-outs and switches, on these, as an extra inducament, we will make the discount thirty two and one half (32 2) per cent.

Those prices are better than Bessie, Bergmann & Co. have over quoted to anybody, and I trust that they will prove acceptable to you.

The above cancels that part of my former letter which refers to wester, hormann & to's discount as being twenty five (29) her cont.

Mosers, Bornsann & Co. ship goods charging for boxing and cartage on same, but this is a very mail amount.

I would suggest that you prepare a tolegraph code for use between your company and mysulf.

Anything that you may require from hereI shall be glad to attend to the shirment of, and in fact would suggest that all orders should be sent to be and hayments made to me, in order to evold confusion and to insgre your getting exactly what you require.

ory truly yours,

Ja.E.



A. Achard, Euq. Brets.

Societe d'Appareillage Sloctrique, Coneva, Switzerland,

Doer Sir :-

I have received your various letters as to the formation of your contant, and have recently received from my Attorney, Mr. coddard, a full report on the matter, which enables me to reply to the various questions raised by you.

Pirst, as to material. Within the last few menths we have made a great many changed in connection with the construction of our dyname machines with a view to increasing their capacity for a given investment, and in many cases in increasing the capacity and reducing anginvestment. We have so far turned out a 400 light machine, which we are prepared to sell to you for \$1,500., V.O.B., New York, and also a 100 light machine, for which we should charge you \$400., V.O.B., New York. At the present time we are about constructing a number of 23 light machines.

50 light machines, 300 light machines and 300 light machines. At this writing it is impossible for me to give you the exact prices of these machines, but immediately our work on them is

advanced sufficiently, I will send you quotations for your guid-With relation to the two machines first referred to, I have ordered for you detailed drawings of same, which will be sent forward at the earliest possible moment.

It has been quite impossible for me to write you earlier on this matter, owing to the fact that at ahe came you applied for information, we the construction of our dynamos was in a state of transcission from one style to another, and the data at our command was not sufficient to be of any material assistance to

fith relation to Sockets, electroliers and other sundries, I send you by this mail, under separate cover ton copies of Mossrs. Borgmann & Co's catalogue, which will give you exactly the information you ask for. The prices quoted are subject to a discount to you of twenty five (35) per cont, which is the very bost terms given by them to any or our companies.

I also send you, under separate cover, copies of mesers. Armington a sime ongines, for which I bog to quote the following prices W.O.B., New York City:-

9 2 x 12 Engine 3 1,050. 13 x 13 Engino..... 1,600. Ruch of the above engines have one driving pulley on. 13 x 13 engine with a driving pulley each side. \$1,850. 14 2 x 13 engine with driving pulley on 14 2 x 13 ongrno without any driving pullays and arranged for connecting directly with atean dynamo...... With relation to lamps, I bog to quote you prices as follows :-Eight (U) and Sixtoon (16) Candle Imaps. 50 Thirty Two (32) Candle Lamps..... Bifty (50) Candle Lumes..... One Hundred (100) Candle Lamps.......... 1.50 The above prices for lamps are F.O.B., New York, The reasonswe charge sixty cents for ten cendle lam's. is that it is but recently that we have sturted to manufacture thom and the quantities in which we make them are comparatively small and the difficulties of Manufacturing are considerably groater than in the case of the cipht and sixteen candle lames. " I also send you, under separate cover, six(6) complete

sets of our Bulloting, from Bulletin No.8, those coming before

that number being out of print.

I further sond you six (d) copies of the catalogue of our Isolated Company, and also six (d) copies of a small pumphlot on clocking lighting.

I will endeavor to sold you, it the course of a few days, a set of electro-types for your use.

With relation to your conquery as to whether I can have you the right to sell installations in countries where I have no constants to exploit my patents, I beg to inferm you that my continuets are of such a character that I was absolutely procluded from giving you the concession you ask for.

If you will please whyise me of why further information that you may require of me, I will see that it is promptly sent you.

I onclose you herewith reduced photograph of our 400 light machine, which will give you some idea of the construction of same. The 100 light machines are get up in the same style, and immediately I have photographs or them in hand, I will send you copies.

Vory truly yours

Enclusure

Porsonal.

Sopt. loth.

•

Frank H. Mc. Cormack, Esq.

Williamsport, Fonna.

Boar Sir :-

I onclose you herewith two letters of even date, one addressed to the Promotors of the Edison Electric Illuminating Company of Sumbury, and the other addressed to you as President of the Edison Electric Illuminating Company of Sumbury. The latter must not be presented to the Directors of the Sumbury Company, until the Presented to the Directors of the Sumbury company, until the Presented Rays their permission to the arrangement I propose for their consideration.

I soo no prosports of the immediate solidment of my accounts, and I make the properties contained in the two letter's enclosed as the only solution of a difficulty at once embarrassing to the Sunbury Company and annoying to myself, inamsuch as I put in the plant under a centract which load me to look for full payment immediately my work was finished. Understanding from my Socrotary, in Insull, that the directors of the Sunbury Company were willight to account to any fair propisation which would enable the properties of the sunbury company were willight to account to any fair propisation which would enable the properties of the sunbury company of my money or semathing to represent it, I think the officient is the best way of muchally settling the matter.

Zara

[ENCLOSURE]

1883-09-10

opt. 10th.

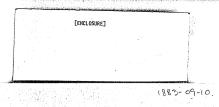
To The Provetors of the Edison Electric Ill. Co. or Sunbary, Sunbary, Penns.

Hoar Sirs:-

Weferring to my Instar to the breakdant of the Sambury Company of own date, I and a the proposition contained in that latter on the condition that the stock to be received by you (an Propositio) from the Salasan Electric light to, shall be allotted to me, or if allotted, thansferred to me in proportion to the amount of stock allotted to me by the Compiny in settlement of my account against them. For example, if it takes three tents (10) (after increasing the stock of the capital stock of the company to enable them to settle my claim, the amount of the remoters shares, I am to receive in addition, shall be three tenths (10) or the total askint of shares of the Sunbury Company received by you as Pounders from the Edison Electric light Co. .

Yory truly yours,

Zal.



Sops. 10th.

. .

Frank H. Mc. Cormick, Esq. President.

Edison Electric Tilluminating Co. of Sunbary,

Walliamsport, Ponna.

Bear Sar;-

I an anxious that the indebtodness of your Company to me (about \$6500.) should be settled fortherth. I beg to propose that the beliance of the above assume, the price to be allowed for said stock being the pur value of the shares. To pay for the beliance remaining after that, your company must increase their capital stock to such an assount as to pay me (in stock) for said belance.

Please have than matter brought before your Airectors and acted on an early an possible.

Vory truly yours,

Lass

Spot. 10th1883.

Gustave Soldan, Esq. Supt.

Edison Wachine Works,

104 Goerck Street, City.

Boar Sirt-

It is very important that I should have tracings of the look light machine and the 400 light machine, so as to enable no to take a number of blue prints of same to send to our various foreign companies. If you can oblige no by getting these out at the carliest possible measure, I shall esteem it a favor.

'Very truly yours,

SI

Sopt. 10th

W. . Bouty, Msq. Prost.

Edison Sloctric II uminating Co.

Shamekan, Fenna.

Door Sir;-

Mindian that the Wife, that I wrote you about, would not be ready in time to impable you to take advantage of it in the first case, I sent a wiresan to Shusekin to start the viring there, so as to impable us to not sufficient lighth on which to hake a Showing show the station it Shamekin in put in operation.

I was very much surprised and somewhat almoyed at rinding that that wiremanniamed have been sent back to now York by you without your communicating with he at all in the matter.

In order that we say he's some lights attacted as Shamekin at the director possible date. I would strapply advise that you sould be Sanbury for a man who is doing the varing there and have him wife up several prominent pulldings to start the work.

It is only a matter or a vory row wooks before we will be able to supply you with a vory much chalper material for wire work, but in the meantame I think that your business would suffer very much in the station was Tort in its present state until that material is ready.

ory truly yours,

P. D. Dyoy, Esq.

London,

boar Mari-

I have your letter of September Oth, dated at Springfield, thio, and in reply bog to say that I do not at all approve of on Stuart's ideas as to how a city should be convessed. If you canvass a city of the size of Springfield for only 1600 lights, if they should ever wint to increase their plant it would necessitate another canvass, while our present style of doing "" business enables us to at any two to make a desired increase in th the maize of a plant with very little additional expense. It will therefore be better for you not to most un stuart's suggestions.

I should like very much to take a trip to the Gincinnati and Louisville Expositions to see our plants in operation. excellent reports from all quarters, and from them judge that we are making a very fine show. Unfortunately, herever, I am so busy that I cannot even run into the country for a few days to rocuperate, netwithstanding the fact that I am vdry nearly "played out" with hard work. I hope, however, that the spell of cold weather, which we are it the present moment enjoying, will have a bracing effect upon my constitution and enable me to lang

one, Arthort toping any holidays.

Yory truly yours,

85

Sopt. 11th.

J. R. Compbell, Enq.

Williamsport! Fonna.

Doar Sari-

I received this morning your leason and map in reference to Remove.

Have the Beneve despiraty, by their charter, the prival we of running wires according to the red lines shown on our
rung. I find that you have not given he that information, and
should like to knew if we can right through private property, and
if there are any obstructions in the way and the nature of them
I wish you would always be careful in sanding reports
upon a town to include this information, as without it is impossible for us to make a proper estimate of the cours of the
attent installation.

Vory tr ly yours.



Sopt. 11th.

A. A. Cowles, Esq. Secty.

19 Cliff Stroot, 'City.

Doar Sir:-

I have your letter of the 10th.

The price numbed by you for the cable seems very high indeed. Cannot you pensibly make it for us for less than 45 ets. per pound? We desire the cable put up in cells. We order by Carminghas guage.

Yory Truly yours,

1883-09-11

Sept. 11th. 1083.

The Edison Co. for (solated highting,

City.

Door Sirs;-

Referring to your ravor of yesterday's dute, it is very uncertain whom we shall be able to take in hand the changing over of the "" and "?" machines. Even if the "" machine is changing into a 100 light machine it will of necessity be a mane expensive machine than the present 100 light machine and by no mount so "mod Tooking."

Yours truly,

Sopt. 11ti

J. F. Bailoy, Esq.

33 Ave do l' opera,

Paris. Proned.

shannour sailoy:-

I have your latter or angust loth, and note what

I do not boliove that your school would be rensible in

that place, but I think that Paris might do.

In reference to the other points in your letter, Major Raton is writing you, emeracing them all.

Vory truly yours,

Jake,

J. D. Rich, Esq.

Hotel Bulmont,

Brockton, Bass

HOMY BATT

I have your latter of Esptember 6th, and have endered for and the glass for the eilers and the gib, which were broken in transit.

I promuse by that this you have received the sm feet of $^{1}\mathrm{S}$ and hubber tube which you asked for.

I think it would be as well for you to obtain office furniture in Brockton, keeping the cost of same under \$1.00.

I do not understand what the oil came are which you ask

T also have your latter of September 1st, enclosing sketch showing the disposal of indicators and switches in the Brockton central station.

Very truly yours,

SL

Sopt. 11th.

Mesars. Bergeann A Co.

202 Avonue B, City.

Donr Sirs:-

Then can you supply un with a ¹4 horse power motor and i ¹8 horse power motor watth connections cusplates. We want to send them to Brockton.

Yory truly yours,

1883-09-11

Sopt. 11th.

N. S . Koith, Esq.

. 41 Jiborty Street, City.

Dear Sir:-

Will you pleam lot no have shipping directions for the plating machine built at the Machine works.

Vory traily yours,

Taky

Sopt. 11th.

G. W. Wilber, Esq.

dorner 4th. & Rodman Sts. Fall River. Hass.

Dear Sir:

I enclose you herewith map of Fall River, and I have enclosed in a red line the district that I want you to carvass fort first. After you have canvassed this district you can go ahoud with the rest of the city, but I want you to take in a larger area than is shown on this map. T believe the city extends consider-"ably further South, North and East than is recorded on the onclused , and if you consider it advisable to go further West, I want you to do so. I am particularly desirous of having this canvass made with all possible despatch, and therefore think it would be better for you not to make it in noo from, but to get it out on sheets, which you can work up every hight and send us the data in the morning, so that we can go right ahead with the map as this information comes to hand and have it completed by the time your canvass is all sent in. I trust that you will do everything in your power to rush this through, as it is imperative that we should have the estimate ready by the 21st. After the map is completed it has to be sent to Brock ton for the electrical determination to be made, and you will therefore see that no time is to be lest

in forwarding your notes.

Please no careful in montioning dwellings to gave the class and it you come across any bridges state whether they are draw bridges or not.

I notice in your canvided of Natick that in some places
you canvass a store for the first time say at U.05 P.N. or later
"and mark it "closed". It would be well for you to find out if
the store closes at J.P.N. or if it remains open until 7 or 7.30.
Yory truly yours.

Sopt.11th.

110110.22011

Hosses, Borgalina A Co.

353 Avenue B. City

Door Sice :-

Term to recent to indicate from in Androva, under which of September 4th, and I ber to quote the following for your unformation:-

"There that herecame is pashin; forward the three majore maters and the pressure indicators, also the double main states to open dyname one by attained volt mater. I shall soon to mailing for the empere maters we. I wrote a letter to me clarke concerning those instruments whiterstay, and I trust that in here many all see that my directions concerning them are married out to be shall have trouble."

in Androvs at the moment is in the city, and vill deliber land will upon you with reference to the above.

Thave this day sont to have Oscar Von Millor, munich, awarks, bill of Indian for one box of practical material shapped by you on the 5th. Last. By the "Non Star" water.

Very Sydly yours,

S,l

Sont. 11th

S. R. Bailey, Esq.

Oxford, Conn

Dear Sir;-

Your favor of the 7th, inst, came to hand yesterday.

With relation to what you have to say about my telephone, all the comment I can make on this is that you are entirely in error. I have never taken advantage of yours or anybody class inventions or suggestions. I see altogether too bany to consider any matters outside of my own inventions, and would therefore suggest that you should patent your ideas and work these out yourself

Vory truly yours

opt. läth.

Frank H. Mc. Cormick, Esq. Prost.

Edison Bloctric Illuminating Co. of Sunbury,

dilliamsport, Penna.

Doar Sir:-

I have your letter of the 5th, list, in reference to

The value of the machinery, together with the building, s is about 50,000., and one per cont would be a fair rate on a Yisk of this character.

Vory truly yours,

Jall

Sopt. 12th

3 -

Philip Richardson, Esq.

| Box 589,

Woburn, bass

"Doar Sir:-

I have your fagor of the 10th, anst, and an really begt to atate that we have changed one of our machines to a plating machine for Mn Feith for metallingical purposes. It gives 0.2 volta pressure and 0.33 ambores of chirrent. The price was \$1,800.

Trusting that this Will have you all the information

you require, I as

Very truly yours

Tab

Sout. 12th.

W. D. Rich, Esq

Hotel Belmont

Brockton, Has

Door Sir!-

I have your letter of the 10th, inst, and in reply would say that I do not understand your statement that there is no midderial at Jawrence to commone work on.

The bodplate and washers for the 14.2 x 13 ongane, together with washers for bolts is said variety. The bolts and papes for both engine, went forward on the Hids value. The bolts and papes for both engines went forward on the Hidsen, which are channer covering was forwarded on the 28th, and bolts for the dynames on the said date! took lamps on the 27th, and with one or twonexceptions. The engine room and mater room sundries have all been despitabled. I have just been notified by Hossrs. Habouck & Wilcox time the boller was shipped the providing, and you can have the 14.2 x 12 and the providing which we will be not by notifying desirs. Writington a Sime to ship it. The steam piping should no forward to-morrow.

I have advised you right along of the chipmont of this material, and I shall be plad to knew if any of it has gone attray, as I have tracers nont got for it immediately.

Sept. 12th

The Electric Tube Complay have already commenced to

I shall be gird to know if there is anything else that you have not recaived which will provent your foing ahead with the work.

As requested, I enclosed by hereful a plan of the lawrence station, and also two bild prints of the underground copducturs. You will recollect that these conductors stop at
Jackson Street, those beyond that showing the extension which the

Very truly yours,

Sept. 12th

Edison Electric Light Co.

london, E. C. England.

Dear Sirs:-

In view of the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the lamp.

Company to quote to you the following prices for lamps ordered In ...

Tota of 10,000:-

13

U candlo lamps...\$.40

16 candle lamps.... .40

10 candlo lamps.... .50

32 candle lasps... .60

50 candle lamps.... 1.00

100 candle lamps ... 1.50

If orders are given in lets of 23,000 lamps and upwards,
we will ship them to you free on board in the Ports of lenden.
Bristor, Liverpool, Clasgow or any other English Port to which
shipping rates are not higher than these to the Port of Lenden.

You will notice in the above that 32, 50 and 100 candle lamps are quoted at the same prices as these recently billed to you. We regret very much our insbillty to reduce these prices,

. .

but find it impossible to do so, as the lamps referred to are of a special character, and the domand for them is very limited, and the lamp Company manufactures that at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices on these lamps also. These quotations are to take offect on all orders sent by you from this date, of and orders are given in lots above mentioned.

Vory truly yours.

Jak.

P.S. If you are prepared to order a candle leages in lets or 10,000 or upwards, we shall be willing to supply them to you at thirty five (33) cents each, and if ordered in lets of 25,000 and upwards, we will ship them to you free on beard to the Ports of Tondon, Bristel, Liverpool, Clasgow or any other English Port to which shipping rates are not higher than those to the Port of London.



Doutscho Edison Cosellschaft,

ud Loipzigor Strasso,

Berlin, Germany,

Door Sirs;-

In view or the improvement in the manufacture and the increase in the demand for lamps, I have arranged with the Lamp Compan. To quote to you the following prices for lamps ordered in outs of 10,000:-

e candle lamps...s .to

16 candle lamps.... .40

10 candle lamps.... .30

32 candlo lamps.... .00

50 candlo lamps.... 1.00

100 candle lamps ... 1.50

If orders are given in lots of 25,000 lamps and upwards, we will ship them to you free on Sourd in the ports of Hambarg, Antworp of Genea.

You will notice in the above that 3d, 30 and 100 candled lamps are quoted at the sume prices as those recently billed to you. We regret very much our inability to reduce these prices

but find it impossible to do so, as the laws referred to are of a special character, and the demand for them is very limited, and the lamp Company manufactures them at a loss. As the demand increases and the methods of manufacture improve, we shall no doubt be able to quote you better prices of these launs also. These questions are to take effect on all orders sent by you from this date, if said orders are 12 von in lots above mentioned.

Very truly yours,

Taley

P.S. If you are propored to order a candle lamps in lots of 10,000 or upwards, we shall be willing to supply them to you at thirty five (35) conts each, and if ordered in lots of 35,000 and upwards, we will ship them to you free on board to the Ports of Hamburg, Antwerp or cenes.

h.

A. Schard, Esq. Prest.

Societe d'Appareillage Klectrique,

Coneva. Switzerland.

Dear Sire

Referring to my letters of the loth., I bog to supplement the prices quoted for lamps by the following:-

Tr you wall order from us lumms in lots of 10,000, we will give you the following prices:

8 candle lamps....\$.40

10 candle lamps..... 50

32 candle lamps.... .00

50 candle Jumps.... 1.00

100 candle laps.... 1.50

If you give us an order for 25,000, we will rive you the turther advantage of dailyoring the lamps free up board in the Ports of Hamburg, Antworp of Haves.

Vory truly yours

P.S. If you are propared to order to candle lamps in lots of

1883-09-12

23

10,000 or upwards, we shall be willing to supply them to you at thirty five (%3)conts each, and M ordered in lots of 23,000 and upwards, we will ship them to you free on board in the Ports of Manburg, Antworp or Havre.

tarian da de la companya de la comp La companya de la co

Sopt. 13th

Sociato Electrique Edison,

Paris, France.

Dear Sirs;-

In view of the infrequential in the manufacture, and the increase in the demand for lambs, "I have arranged with the lamp Company to quote to you the following prices for lamps ordered in lots of 10,000:-

u candle lamps....\$.40

16 candle lamps.......40

10 candlo lomps......50

50 candlo lamps.... 1.00

If orders are given in lets of 25,000 lamps and upwards, we will sain them to you from on board in the Ports of Hamburg.

You will notice in the above that 32, 30 and 100 candle larges are quoted at the same prices as those recently billed to you. We regret very much our inability to reduce these purices,

superind it amponsible to do so, as the lamps referred to are of a special character, and the demand for them is very limited, and the jamp Company manufactures them at a loss. As the demand increases and the methods of habitacture improve, we shall no doubt be able to quote you settly prices on these lamps also. This quotestions are to take offect on all orders sent by you from this date, if said orders are given in lots above mentioned.

Very truly yours,

P.S. If you are prepared to order a candle lamps in lots or 10,000 or upwards, we shall be willing to supply them to you at thirty five (33) cents each, and are ordered in lots of 25,000 and upwards, we will ship them to you free on board to the Ports of Remburg, Antwerp or Conca.

Sept. 13th.

P. B. Shaw, Esq.

Williamsport, Ponna

Dear Sir:-

I beg to acknowledge recorpt of your favor of the With.

Inst, and regret to state that it was necessary for us to obtain a
new determination of solicioned, and we were consequently unable
to forward you the estimate on Naturday as presized in the prev-

I will sond you estimates of Williamsport to-morrow of morning for 1900 and 2400 lights.

In reference to Oil City, I presume you are name that
we have as you made no canvass of that place. I suppose, however,
you will notify us when you want this dom?

very truly yours,

Jak

Door Sir!-

I am in receipt of a letter from Mosers, Harris & Robinson, under date of September 11th., asking us to make a carvass of Morwalk, South Morwalk and Waterbury, and shall be glad to know if an have your authority to go ahead and do the worl? Yours truly.

A. Cowles, Esq. Scety.

19 Cliff Street.

Door Sir:-

I bon to acknowledge Feesipt of your favor of the lith. inst, in reference to triple dovered wire, and will sond you this nample that you ask for in a day or so.

Yery truly yours,

Sopt. 13th

W. H. Douty, Esq. Prest.

Shamokin, Penna.

Doar Sir;-

I wared you this afternoon that you should order through the Edigon Electric Light Company, 230 lamps of ten candles each to start on.

In order to explain the following remains for sending this following. I would say that the Tamps have to be ordered through the Tamb Company, as the Edison Lamp Pactory cannot recognize "offices uplace they are received through that Company."

Tall

Sout. 13th.

W P Unton Rea

Harrison, A. J.

Doar Sir:-

I beg to acknowledge receipt of your postal card of the 12th, inst, and in reply would say that Mr. Edison is going to Shamokin on Monday, the 17th, prox.

Vory trul/ /ours,

3

Sopt. 13th.

r. I. Spraguo : Esq.

Motel deligent,

Brock ton, Hass.

Doar Sir;-

In reference to your several communications received during the last few days, I repret to say that Mn Innull, who has those matters in hand, is at the present measure 111 and confined to his bed. No will, however, he in the office again to-morrow or next day, when he will send you she necessary answers.

I have your letter of towing's date giving the size of the colls for the regulator designed by you and have referred a copy of it to harmons s to.

Fory truly yours,

W. D. Rich, Esq.

Notal Helmont.

Brockton, Mass.

Doar Sir:-

I have your letter of Sopt. 19th., and in vol 1/ would say that the parts of the "" dyname which were lest in transit will be sent you immediately. The delay in sending these was caused by the superintendent of the Sachine Works not understanding what you mant by "gib". I showed has your shotch and he more understands what it is that you want.

In reference to all came, please return those yes have on hand at Brockton to John Ott, care Bergmann & Col, 202 Avenue B, New York.

I note your remarks in reference to Lawrence, and I pressure that you can start on Henday to erect the boiler.

I tolographed Samuel J. Koore & Sons than morning to send he a duplicate shipping receipt for the washers and bedple to.

Then I get thin, I will send it to you and you can have the railvey agent at leavence send out tracers for the missing material,
providing it does not arrive in the mountaine.

I will write Mosars. Armington & Sims in reference to the step valveson their 14 2 x 13 engine, and have it made the pro-

per siso.

The Lawrence motors went forward yesterday, and Y thank
the Proceeding actors were shipped at the same time, in any event
you will receive them in a day or two.

Freight bills came to hand "O.K."

Vory truly yours,

Jary

J. R. Campbell, Esq.

Williamsport, Penna.

Doar Sir:-

I have your letter of the 13th, inst., and forwarded to you yesterday morning another chart of Williamsport.

In reference to the Williamsport Company securing themsolves the necessary companions to erect poles on private property, I would state that we much prefer to obtain these permits ourmelyes, but if the Williamsport Company desire that we shall allow
them tomobtain the remaits, we will do so, but simply stipulate
that our bid for the street installation will ally hold good
providing the concessions are obtained in accordance with the lines
shown on our exhibits.

Enclosed find check maker 50 for \$50, to cover your oxponses.

Very truly yours,

Taky

Coorgo F. Blass, Esq. Conoral Supt.

Chicago, Tils!

Done Sie;-

I we informed by a gentleman, who bounded at the Pelher House, this see, that the lights installed in that be aldingspoons troops three times a week. I prosime that you have been unimpare of this fact, and I write this latter in owder that you may have the intter corrected.

Yory truly yours.

Jacy



J. Sprague, Msc.

Notel Belmont.

brockton, Hass.

Doar Sirt-

We have the pleasure to acknowledge your favor of the 6th, inst, which would have been replied to earlier but for circumstances which have interfered to prevent this being done.

AUTOMATIC RECUlator. We do not believe at all in the use of automatic regulators in control stations shalst the regulator is in such a condition. In our opininothe automatic regulator is a necessary evil in isolated plants where there is great yar-Tation number of lamps on at any one time and the variations in spend. Both those difficulties are comparitively everyone in . our control stations, and I much profer hand regulation. With relation to the hand regulator, I enclose you herewith a sketch which will show you the withod in which Mr. Andrews commetted up the regulator at Shawokin, where the same blunder had been made in this connection as the one you now have. You probably can set it right by pursuing the same course as Mr. Andrews did.

With relation to mon, if you find it cheaper and more oconomical to use wiremen, you can of course have them. What we want to do is to have the work done as well and as economical as

2

possible

The connections, such as designed by Mr. Johnson, have been ordered for you and will be shipped immediately they are ready

With relation to the switches, we enclose you herewith a rough skotch of the arrangement of the station at Shamokin

All reference in letters written you have been partly based on the method pursued at Shaqakin.

fill you please see if you have switches to answer for the work at swockton, following generally on the same character of work as that done at Shamokin, and a knowledge of which the enclosed sketches will give you? If you have not we will order such s litches as you may intimate as being requisite. It is our impression, however, that you have all the switches, and in fact several over, except possibly several plug switches for cutting the bank of resistance in and out.

The reference in our letter of the 8th. Sunbury was in error, Shamokin should have been mentioned, as the criticism on switches required by you was based on what had been found to suit the purpose at Shesokin.

Yours truly,
Leeby

Enclosure.

0

F. J. Spraguo, Esq.

Hotal Helmont,

Brockton, Mass.

Doar Sor:-

This will introduce to you in Johnson, when we are sending to breakton to take charge of the wiring of houses under your direction. We desire that in Johnson should are enough houses to make a showing on at the start, and if he requires any assistance, that he should obtain it locally, subject to your approval.

Then I get to Themskin, I will choose a local man, who is to be taught our method of waring. You will of course see that In Johnson follows out generally the plans laid with Mat Sunbary, with relation to inside wire work.

Yours truly,

Jae

Sopt. 14th.

Hotol Helmont,

Brockton, Mass.

"Doar Sir;-

Please impress Apon Mr. Jonk's the fact that we must not gut in any customers the setal of whose lasps will not give us at least two hours and thirty minutes average for 300 days.

If he is going to cut in any one who wats the light, the station will simply be a commercial failure.

The maximum number of lights that a party over burns at any one time, divided by the total lamp hours in 300 days should give not less than 730 hours per lamp. Of course a party may have 50 lamps connected, but nover have more than 10 lighted; if that is the maximum, then these are the lamps to be counted.

Yours truly,

Sout. 15th.

G. P. Lowroy, Esq.

S Broad Stroot, City.

My Dear Mr. Lowroy:-

T onclose your horowith copies of latters to Sir John Lubbock and Thoodore Waterhouse, in reference to the Tusion of the Ediam and Swan Companies in England.

Yory truly yours,

Enclosuro.

Sapt. 15th.

A. A. Gordon, Enq. Snety.

10 Cliff Street, City

Dear Sir:-

In roply to your finder of September 18th., I beg to say that I will upon to the Proposition of the cost of tape.

Reserving cutton for outside grapping, I agree with you all that plain uniform culor will look much better than the "backbor" pole" juttern, and shall we slid if you will choose scrathing that will inserve.

Vory truly yours

1,55

Sept. 17th, 1993.

S. B. Paino, Esq.

P. O. Box, 2011,

· Boston, Bas

Door Sir:-

I have your favor of the 14th, inst, in reference to the brushes on the 400 light dynames.

At the louisville Expansion we have fourteen all dynahos, eight of which carry 400 lights such, and on which we are " usuin the brushes you seem of. I am informed that these brushes work bountifully and the committee polishes. We make all our tests with the brushes you have.

It would be impracticable to use a set of "In brushes on the "In machine. The "In brush is soldered to the trough, while the "I" brush is movable in a shorter trough which is fastened to the brush-holder.

Very truly yours.

So; t. 17th. . .

G. W. Wilbor, Esq.

Corner 4th. & Rodman Sts.

Pall Rivor, Hass.

"Doar Sir;-

"Beforeing to your fiver of the 16th, inst, it would be 'as well for you to mend us a special report on Mall River.

Yary truly yours,

.

Mossrs, Marris & Rubinson,

Room 2, Trust Co's Building,

Hartford, Conn.

Doar Sars:-

Referring to your letter of the 18th, inst., I beg to say that we mean by "Neuco Lights" the number of lights used in a house. It is impossible for a canvassor to get into a house and find out how many lights are burning, but by deciding the character of the house he can make a very accurate estimate.

I send you under nigother cover duplicate mans of Martford, Danbury and Southington, also the Isolated plant books you asked for.

In reference to estimates, we have no available copies at the money which we could send to you, and we are so proceed with work that it would be impossible for us to get them done at once. "I will, however, send you enter a seen as I can get some made."

Very truly yours,

as Firth Aromes.

Now York, Sept. 18th. 1883.

J. U. Mackonzie, Enq.

caro Timo Tolograph co.

Temple Court,

5 Bookman Strout, City

Boar Sir;-

In consequence of the present nature of my business, and many things that I am interested in, I would like to surfender all interest in your transmitter for Empland, yet your reimbursing no any mount that I may have incurred up to this writing in connection with said invention. I am empolled to take this course, owing to my time being so fully compiled, that I feel it is impossible for me to deal with the matter in a manner mutisfractory either to you or myself.

Very truly yours,



Sopt. 18th.

S. B. Raton, Esq. Prest.

Rdison Bloctric Light Co.

City.

Doar Sir:-

T am in receipt of a latter from Mr. Batchelor, and The

"The or dynamos all came to Milan without having the bearing places of the shafts tallowed. They were exapped with paper and then outside of this was some tallow, but not inside. The sea air so rusted them that it took ever two menths to get them to run without heating. They ought to tallow them well and afterwards wrap them with a place of felt that has been dipped into melted tallow.

Armington Engines. The Armington angines came not ontirely together and there were no marks to tell which place boldinged
to each angine.

Invitation . Under the commutator bars we have always put japanned paper instead of sized in the small sizes of dynamos.

I find that in many cases this paper is carbonized and senetimes axen we have noticed nothing with the machine particularly,

23

put mica in thom-now.".

Yours truly,

yale,

Sept. lut

P. J. Sprague, Esq.

Hotel Balmont,

Brockton, Mass.

hoar Sir;-

Enclosed please find map of Southington; which requires an electrical determination, according to the red lines. It is to be all pole lines.

Yours truly

7.a.E.

Sopt. 18th. 1863.

Custave Soldan, Esq. Supt.

104 Goord Street, City.

I am an receipt of a letter from a: Batchelor in which he says that the "of dynamon all arrived at Hilan without having the bearings places of the shifts tallowed. He says they were arapied with paper and outside of this was some tallow, but not inside. The sea air so runted Thom that he says it took him eyer fee to get these to run althout hereing. He says that with the next shipment you could to tallow them well and afterwards "arm these with a piece of feet that has been dipped in medical tallow.

wrinkle on the major the commutator bars what on the analysis of dynamon, the says that they find in many cases this is carbonized and semetimes from they have noticed nothing they are the machine particularly flusing nice in them now.

Yours truly.

Taky

1883.09 -18

Sept. 18th.

Mosors. Armington & Sims,

Providence, R. I.

Door Sirs:

I am in recoipt of a latter from Mr Nateholov in which he states that the Arministen engine arrived 36 Billin not entirely together and there were no highly to tell which piece belonged to each engine.

Will you kindly havo this matter adjusted in future, and oblige,

very truly yours,

Jak,

Sont Tath

Sociato Electrique Edison,

Paris, France,

Doar Sirs

I beg to acknowledge receipt of your favor of the Alst. August in reference to electric railway. In reply I would may that it is impossible for me to take this matter up, as I have too made work on electric light business.

Things are "bouning" here in village and city plants.

Very truly yours,

Zns



Woovers National Retal.

Shanokin, lenna.

My Doar Edison:-

Your tologram came to hand asking for chamicals, motors, scales &c., and the various articles enumerated have been shipped. The motors were kept back purposely: the rest of the articles should have been shipped but for a blunder, which I suppose I must take the gradit for.

Soldan started to took the non light machine yesterday, but found a creas in the armathre, and when I left the works this morning this trouble had not been fixed, but he promises to let me have a report on a partial test this afterneon, but up to this writing it has not yet come to hand. As soon as I get it I will sond it to you.

I saw dowlon to hay in reference to the cable, and he says it is impossible to fitte exactly when they can deliver some of it, and as it is a new thing he is depending entirely upon the factory so to when it will be turned out. If it was an article of ordinary manufacture he could name a time, but says he will push it through as quickly as possible.

1883-09,20

Sept. 20th

,

I was in the control station to-day and Chinned was trying a pair of the new brushes. There was quite some heat from them, and one brush had get burned very badly indeed. When I left, however, the brushes were working a little better, and he was carrying one or 700 lights on the brushes from the district and not from the test lasgs upstairs.

I had a man in here to-day from Pitchburg, Mass. He runs the Thomson-Heuston business and wants to get up Edison Companies in about ten towns. He came on here at the suggestion of Sias, and I think that when you get to Brookton next week you can make a "dicker" with him. I am to see him to-morrow again. he is one of those real live follows, and he would have closed a contract with me on the most. "Of course such difficulties as torms he has get to be talked into."

T hope you are enjoying the bad grub and the "twofors."

T will go to helmonice's to-night and dat a double sized dinner;
so that you can imagine you have had part of it.

I onclose you the Intest emanation of the Engineering Department. Itwis a most beautiful piece of blue printing, and will no doubt go a long way towards changing you on in your

1883-09-20

fonely way in Shamokin.

Yours very crusy

Shamokin

Sont. 30th. 1883

Thomas. A. Edison, Enq.

Teavers Matienal Notel,

Slomokin, Ponnal

By Door Educont-

Sames writing to you this afternion I have seen Soldan, and he says that he has tested the Son light machine. He ran the armiture at 1100 revolutions and get 200 amperes out of it at 113 volts. The armiture was perfectly each at the time he left the shop to come up to see me, and to machine had been running 1 2 hours. He seems highly elated over the result of the test, as he says it has seem out exactly in accordance with his calculations.

Yours vory truly.



Sopt. Alst.

F. J. Spraguo, Esq.

Rotol Belmont,

Brock ton, Unss.

Door Sir;-

Your two very longthy letters of the leth, and 20th,

Tith relation to the extra tubes desired to be laid by in carrison in place of the paid Tries proposed to be put up and provided for in his contract with ne, I have under instructions from in jacks evidend the Tube Coal any to lay 2000 feet of substimining a tree is in Jonks and indicate. I have also ordered from in Krucai, at the instance of in Jonks, 30 longths of two wire agrice tubes for use at Prochem. I understand that these were ordered in your suggestion. In your little of the inthe wore ordered in your suggestion. In your little of the industry of the arthury of the order is described to use mostly three service, but immedia as the order has been placed for two wire service it is impossible to cancel it without considerable loss to the Tube Co. or Mc Marison. I think the matter had botter stand as it is the present time, namely, to use two wire service as mich as together.

The connections devised by Mr. Johnson have been ordered from Hergmann & Go. and will be sent forward to you as quickly as possible. The Pooder safety catches have also been ordered for you and these will be forwarded as quickly as they are turned out. The switches asked for in your letter of the leth, have also been ordered. The feeder indicators are also being pushed forward as quickly as possible and will be sometic you at the earliest moment. The three house changing switches which you refer to were ordered, but the order was subsequently cancelled, and the switch designed by Mr Andrews will take it place.

With relation to lawrence, the first part of my contract, known as Order No.1, and which I am now putting in, calls for two 400 light machines, later on I am to put in two more 400 light machines, the "K" machines which they new have acting as a spare. If they want 300 light machines limit to un lord on this subject by this mail.

Your report of his wiring corruborates what I have heard from other sources. I will go into the question of the switches and wiring equired at Lawrence by you and have the thing fixed up so that you will have no trouble when you come to do the work.

I cannot understand why in one letter you suggest the use of two wire nervice and in the next of three wires. Acting on your first letter as above stated and under Mr. Jonks orders.

we have endered 25 or 30 lengths of two wire services, and propose using the tubes which were sent on for three wiresservices to extend the system as above referred to...

The reason that things are shipped to in hich is that he pays the bills. I should have no you could easily arrange with him what cases you are to open, thankeled, as almost all the stuff that comes from Bargmann wints is for your use.

Exact account alloudd be kept of the time and material used by Johnson in wiring the various houses that he is engaged on.

Vory truly yours,

Tab.

Sopt. 21st. ...

Comitato por la applicazioni dell'ellattricità Sistema Edison,
via Manzoni, 13 A,
Hilan, Italy.

Dear sirs!-

Referring to your several cables and my cables thereto confirmed alsowhere, I beg to inform you that the reason that the 400 ampere dyname (they are known as the "Pr machine) has been ready to ship for sease weeks past. The steamer which should have taken it ran aground on the long taland shore and has only been get off Within the last few days, and it is now discharging its carge preparatory to taking a return carge for the Mediterranean.

Immediately this or an earlier vessel sails, I will advise you of the shipsont of the machine.

with relation to a "6" dynamo. I have several in my shop, practically completed, but it will take he mome forty days to get an Armington engine to attach to one. I therefore cabled you "That I could ship one forty five days after order if there was a stounder sailing, and my price for some would be \$0,250., free on board in New York, laysont to be made here when dyname is completed.

At the request of the Ausenia Brass & Copper Co. I added.

...المالية

tolmy cabbe that they desired typenet for vire ordered by you on shipment in New York orders will sell you the wife at the make price which they queted to the Paris Company, handly, 27 cents per pound, and youn bill will successfully the Arrabide 22, 970. 12 In Consideration of paying coast, in New York, they will hill or you a first sound to the first is presincy the Karrange of the make by the Carrange of the Society Charles of the Society of the Soc

nergiving to your letter of the Ath Reptember, I have ordered the circuit breaker and uprights for you as requested therein. They will be shipped from here in about ten days.

We have now made a now machine giving 100 lights, and which Tahall be glad to seal you in quantities of not less than five (3) for \$400. a machine, F.O.S. New York, payment to be made in New York on presentation of the invoices and hills of lading to Your agents here. We are now making a 25 and 30 light machine and New 2 200 and 300 light machine. Our experiments on those machines are practically completed, and as soon as we have models out we shall be glad to quote private to you for same.

We have written to Mr. The With relation to the new recording ampere meter. We have not turned out any new meters, the this only alteration being a cheapening of the case, which is now made.

made of tin instead of cast iron.

We have ordered for you the 3,000 lamps requested, and they will go forward in the course of a week or so.

Our impression is that your orders should come through the Scalate Electrique Edison, of Paris. Will you please communicate with them on this subject and savise us with relation to

Yours very truly.

Tall

Sopt. Alst.

3

Sociate Minetrique Edison,

Paris, Pranco.

Door Sive:-

Referring to our cable correspondence dissenter confirmed, patent Mo.25 is of the great importance in this country to allow of being dropped in Europe. It covers the fundamental principles of our automatic regulation, and under the circumstances our company here could not give their consent to the dropping of the patent.

Vory Truly fours.

Talf



Sopt. 21st.

Charles Batchelor, Esq.

Paris, Pranco.

Doar Sir:-

With relation to cables confirmed elsewhere, I beg to inform you that the prices given by no for fibres were in accordance with instructions which I had received from the Edison Lamp Co Two or three days later, after talking it over with Mr Upton, it was arranged to quote a lower price. When your letter came to Insul? stating that Upton had given you a price hower than that middined by me or the Lam Pactory, I at once communicated with the Lamp Pactory, and decided, after a consultation with them, to send you the cable above referred to.

As to the drawings for the 25 and 50 light dynamos, although the experiments on these machines have been made, we have not as yet got the models out, this is done drawings shall be soft to you. The drawings of the 100 and 400 light machines wil, "I think, he sent to you by Tuesday's mail. The changes at the "Machine Works have caused now delay in getting out these things, which you must accept as our apology for not sending them to you

orlior.

We yesterday tosted the 300 light machine, which gave 300 ampercy at 112 volts and the armature running at 1100 revolutions. This is a machine with one pair of cores and will be sold for demorphere about \$1,000. We hope to send you drawings in about two weeks, or may be a little carlier.

I cabled for your proxy for a mosting to to vote on the an inerdage of the Gorpany's stack from \$720,000, to \$1,000,000. Thinking that the proxy would not reach how it time I cabled you this meyning to sign a Power of Atternay authorizing me to vote your shares at any meeting of the Eight company, and requesting you to have Consul Valler centing difficultative, so as to enable me to go on your power of Atternay. I shall hope to get your reply to

Very truly yours,

Tall

Sont, 21st.

Deutscho Edison Gosellschaft,

96 Leipziger Strasse.

Berlin, Germany

Doar Sirs:-

Referring to our cable correspondence elsewhere confirmed, I beg to advise you that your cable to me of the 14th. September was unintelligible, and I cabled you to that effect on the same day. I have no cable at this writing and as anxiously awaiting remaint of your letter explaining your desires in relation to 100 light dynamos.

I have ordered for your account a 13 x 11 angines in compliance with your cable to be of the 10th. "I has expecting to send you foundation plans by the next hall, at which time I hope to be able to advise you at what date the engine will be chipped.

With relation to the 25 and 30 light machines, my experiments on these machines have been finished, and I will push forward the models as quickly as possible. Immediately they are ready, I will ship them to you and advise you of same.

Vory truly yours.

Tary

E. H. Lord, Esq. Trons.

Lawrence. liass.

Doar Sir:-

Your postal of the Efth, inst, came to hand this morning.

The small engine, that you have, was to be used to run th the "k" machine now used in your station, and my contract does not call for the providing of an "H" machine for this purpose. I can supply you with two 200 light machines. In the course of about three weeks or a month. Heantine I shall be very gladdto loan you two old "I" dynamos, providing you will pay the freight on same each way. If you decide to use two dynames on the small onging you now have. I presume it will be necessarybfor you to not another pulley, as if your 8 2 x 10 engine is of the same construction as those we ordinarily uso, it has only one pulley on. Will you ploase lot me know your wishes in relation to this matter?

It is very desirable that you should order from us sufficient service tubes to connect the houses, which you are now wiring, on to the mains. Will You please send me a general order to supply those, as I think it would be better to leave it to the Electric Tube Company's ontion as to what they should send to Lawronce for this purpose, so as to obviate the delay consequent

iffor sending an order for each entries that you may require put in.
If you will please attend to this matter immediately it will
greatly facilitate your work, as the services can be laid while
the mains and fooders are being put in. If this source is pursued
the expense will be less than if the services are left until the
whole system is completed.

In Rich writes me that it is desirable that he should put in the foundation for the 14 2 x 13 angine and the two "p" dynamos, which come under order No. 2, at the irosent time, in order to save us expense when filling your second order. I promise there is no objection to our pursuing this course, providing that we carry the expense of this work until such time as you should give us an order to finish the whole of the work specified in our contract. Can you give me any idea as to when you are likely to order the completion of the limit, as I am at present out of "P dynamos, and would like to know when you wim will probably call on me for them for this purpose.

Vory truly yours,

Tal.

P.S. At this writing It is impossible for me to give a firm price for the 200 light machines, but they will probably cost about \$700. each, but xx as to this I cannot tell at the memont.

as I have not got out my models at this writing.

Sopt. 36th

3

Paul D. Dyor, Raq

Empire House,

Akron, Ohio.

Door Sir:-

I have your favor of the setch kinst, and help you will be able to capture the hotel man who has gong wrong on "storage batteries".

on Saturday night last to started up at Shomedin.

In Selson returned this morning and shome very highly of Shomekin

as a place for lighting and the great possibilation of making

money there.

On Monday night we shall start the Browkton station and a wook or two after the Lawrence station. 'So you soo things are programming protty lively up here.

Thope you are feeling better, and would suggest that if you are at all sick that you should slacken up a little on the

very truly yours,

8

ont, 39th.

George W. Eliss, Esq. General Supt. Chicago, Ills.

Doar Sir;-

Referring to your favor of the 17th, inst., which would have had a stention earlier but for my absence from to mat showelf, I beg to state that the gentlemen who reported to no about the Palmer House was a Bivattor of our company for two years, and theroughly understands the difference between an are and an individual tight, and he positively states that our lights recould find, he will distribute a he bearded at that hetel for sixio time, he will have had supple opportunity of knowing exactly what

Yours trully

Tag

7. J. Dull, Esq.

16 Barlot Stroot,

Harrisburgh, Ponna.

T had to lower sharehingto go to Brockton to start a station there. The Shripkin statuen was started on Saturday night AMAT think you had bottor wait about ion days until they got some considers connected and then You hight go up there with your friends and see how the thing runs.

Sopt. 30th.

We ile Wich Rea

care Edison Blodfrie Til. &

. Jawronco, Mass.

Doar Sir:-

Mr. Edison has just retained from Shamakin and reports the starting of the station there in good style. He is very much pleaned with everything there, and says that he looks forward toming Shamakin station being very successful. He maked me to draw your attention to coveral points, which he made a note of while in Shamakin. He says that the dynamous should be leveled to particular will not run to one and. When place principles he thinks you should put an extra cook so that a ruther head 4 inch in dimention can be just on in and taken, so that if the oil cup is taken in the house of the pump should be afterwarded that it can take stoom from their boiler, where more than one boller is used at Shamakin it was only possible for the pump to take their tree one boller.

Yours truly.

Sout ofth.

P. B. Shaw, Dag.

Williamsport, Ponna.

Doar Sir:-

Noterring to your undertaking to dispose of the bonds of the Samuchin Company, I shall be glad to hear from you as to exactly what arrangements you have used for the disposition of those bonds, inassuch as at is my desire to make an immediate settlement with the Shenckin Company.

Yours truly,

Tell

Sept. 33th. 1988).

Guntave Soldan, Esq. Supt.

104 Search Stroot , City.

Boar Sirt-

ortra hele on dynamo bearings an inch or so from the oil cup with a serov plug for passing water to bearings through a floxible tube, and thus render it unnecessary to unserew the oil cup in case it should be thought desirable to use water on the bearings to provent heating.

Yours touly,

Sept. 20th.

Hosars, Bergaann & Co.

202 Avonuo B. Gity

Doar Sirs:-

no not tie a knot in the floxible cordenine de of the notice in future. You have been told of this twice. The support wire attached to the mines in the Ai light meters are too long. I think you should cut off shouts 3 of an anch, but you can find the absolute lingth by testing. The weeden plugs inside meters are jupomed wet and stiel so blut we cause full them out of the model. They glugs should be japanned and dried before jatting

Yours trolly

Zal

Sopt. 39th.

9

J. U. Hackonzio, Esq.

care Time Telegraph Co.

Tomple Court, dity.

Doar Sir:-

Can you give me the recipe for the duplicating ink?

I want to got some made for office use.

Yours truly.

Tal

Sopt. 20th.

3

John P. Rogova & Co.

62 India Square,

Boston, Mass.

Door Sirs :-

I have not get on hand this moment the recipe for making my duplicating ink, but I have written to the assistant who used to make it for me to see if he has get a copy of the recipe. Desentately I hear free him I will communicate with you,

Your lotter has remained unanswared since its receipt, during to my absonce from the City.

Yours truly,

Talp

J. I. Groom, Rag.

Tahoe City, Julo Tahoe,

Placer Co. Cal.

Doar Sir;-

Referring to your inquiry in to motors, I beg to menta that we can furnish you with a motor, but I do not see exactly how you could use it, as you say nothing about where you propose posting your electricity from to run the motor.

Yours truly,

Tall

One Milling

Sopt. 36th

3

Pranklin Fallon, Esq.

115 Wost 5th. Stroot,

Josefville, Gol.

Door Sir;-

Referring to your favor of the 19th, inst., An Edison desires no to state that he has not get a machine which will separate exide of iron due to reasting iron pyrites. His michine only separates magnetise, but undoubtedly such a machine as you desire could be designed if the business promised to be of sufficient magnitude to justify of the work.

Yours truly.

81

Sept. 20th

William F. Browstor, Esq.

Sothern Notel,

St. Louis, No.

Doar Sir:-

Your lotter of the 22rd, inst. come to hand this sorn-

I am vory sorry that I did not soo Captain Poffinger.

I am doing nothing about danvasaing New Orleans. Will you please
find out from Captain Hoffinger exactly what he expects done in the
matter, and let me hear from you of the subject.

I trust that on will be successful in putting through the St. Luius Company. Par sometime passed we have had designismon engaged upon the detailed drawings of the station there, so that immediately the matter is closed up we can proceed with the work.

The Jouisville map is a very heavy one to male, but I am premised it in about five or six Mays, and I shall then want some looked up for control stations.

Nothing has been diffe about Plewellyn Park lately.
I will look the matter up and see that it is pushed.

We can take care of all trouble from water or other causes at Mey Orleans.

Yours truly

Zar

Sout. 30:

3

G. P. Britton, Esq. Socty.

Don't. Public Charities ' Correction,

GG Third Avenue, City.

Doar Sir:-

near is busily assessed in making the plans and estanates for lighting Mart's and Ward's Islands, and we shall hope to have them in , such shape as to be able to send them to you in the course of a few days.

Vary truly yours,

Tak,

Sept. 30th.

Charles Estebolor, Esq.

Paris, Franco.

My Doar Batcholor:-

Your lotter of the lith, came duly to hand.

To cabled to you for \$3,000, because we were in a heart of a box, and hills were on the way equalling that assume.

Since the mensy was received, heleven, we have given the Societe Industrials credit for the every direct on the fibrus, which leaves only about \$200. In their rave which cannot be considered any great resumt; as the second with the other way on my books.

See months at a time.

Very truly vours

Tub

3

Honry A. Clarko, Raq.

Erio, Penna.

Doar Sir;-

Your favor of the list. September has been referred to no for reply.

The estimate for the installation of a sensual station plant at Eric is put in as a whole and is not to be accepted in lots. The tender is made in one research, the items being simply given for come convenience and graduate as to what makes up the estimate. If the Eric Company require any items struck out; I shall be very glad to consider the matter.

It will be quite impossible for me to get to Erio to attend the meeting. When your company is erganized and they are propared to make a contract for the installation of a plant, my private Secretary, Mr. Insull, will go on to close the matter with them, unless it can be done by correspondence.

Vory truly yours.

Las

Sopt. 26th.

S. C. lynch, Mag.

68 Vashington Street,

Chicago, Ulls.

Don't Sir:-

Referring to your favor of deptamber 24th., I shall be very flind to look into the matter of the bersett Conduit, and will talk the matter ever with Mr.J. R. Burdick when he calls to see no.

say

Sopa. Both.

3

G. C. Sims, Esq. Supt.

Armington's Sims Go.

Providence, R.

Doar Sir;-

Mould it not be a good idea to have two extra valves and rings for each of our central stations? If so, would the pistons fit? Now about the gara Rabbit shelves for all engine bearings, concerning which I make to your.

Yours truly

Takop

1883-09-27

Sept. 27th.

H. M. Doubladay, Esq.

Edison Exhibit, Louisville Exposition,

Jouisville, Ey.

Doar Sir;-

. Will you ploans supply me with the information which

Hr Clarkosdosiros in relation to the cards sent by you, returning the cards at the same time.

Yours smuly,

Enclosuro,

3

Charles Satchelor, Esq.

Ivry-sur-Soine, Prance.

Doar Sir;-

I have near you by this mail a set of blue prints of the 100 light manhabe as we are building it at the present time. I sea thinking of using only one pair of cores, and should this change be made I will forward you blue prints of sease. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 (*P) light machine out in the course of two or three days, when I will, send a set of blue prints of these.

Very truly yours,

Tall

٠.,

Compagnio detinontalo Edison, Paris, Franco.

Door Ars:-

Your favor of the 10th, Inst. case duly to hand, and in reply I would be to state that it seems to see that the action of the Russian authorities with regard to set No.2 places your Company in a position to remody in Russia the mistakes which have been made in other countries with regard to this important patent, by discarding the great mass of uninportant matters and confining the case to the points which experience have shown to be of great value. I consider this point to her-

Pirst. The placing of an incandescing conductor in an exhausted chamber made entirely of glass with leading in wires concoaled into the glass, and

Socond. The driving out of the ineandescing conductors of the occluded games by raining said conductor to incandesconce during the operation of exhausting the lump globe.

The specification describes lumps of earbone as well as those of motals, and care should be taken to make it clear that the mixing are intended to be accorded without regard to the material

or which the incumescing conductor is reads. The matter I think should be made the subject of one division. If a second division is decided upon, the meter connections shown in figure 73 should be made the subject of it since. Theoretical that arrangement as the next in importance.

The following should also be covered. The arrangement coll
of a noter shown in a shunt around a definite resistance in the
main line and the use of a compensating resistance in the circuit
with the cell. The meter shown in figure 74 could also be in-

I see nothing further of any considerable importance in the case which could probably be patented in Russia;

Yours very truly,

Taly

Sopt. 37th

T. W. Sorrell, Esq.

. 140 Nassau Street, City.

Doar Sir:-

Referring to your letter of the 20th, inst., will you

"please lat me know white the first account in the Nichelson case is?

ery truly yours,

y and

Sept. 27th.

3.-

Sociate Electrique Edison,

Doar Sirst-

The an in receipt of some favor of the with August, and have cabled the Milus company to send he a cable remittance for \$3,000. to cover the amount of my account against them, loss the four regulators and the Armington & Sins engines. I have not, however, at this writing received any reply, and accordingly cabled you to-day to this effect, as confirmed elsewhere.

I have received from the Milan Company an order for lamps. I think it would consider facilitate matters, and he cortainly a convenience to myself, for all orders of the Milan should come through the medium of your office. Will you please endeavor to arrange this for me, and greatly oblige,

Yours Vary tru

Jak J

Sopt. 37th.

7. L. Garrison, Esq.

b 0. Box 3047

Boston, Gass

Boar Sir:-

He Edison and myself will leave for Brockton on Saturday night, it being Br Edison's intention to start the Brockton station on Honday night.

I propose to return to Nov York on Tuesday, and if you can conveniently arrange matters so that I can bring back with me a check for \$15,000., it will be a cry great convenience to us.

Yory truly yours,

8)

:3



Sont, 37th.

Honry A. Clarke, Esq.

Erie, Fonna.

Door Sirt-

Your letter of the 24th, September has been forwarded to me at the above address.

If you have any enquiries to make about my estimates and will address them here, you will always got a prompt reply.

I stay such a short time in a place that it is solden that you can recton on catching me.

As I wrote you yesterday, the bid made toyyou is made as a whole, and I should hardly feel disposed to have it cut up, although of course I should be glad to consider any proposition that the Rrio Company may have to make. Our experience, however, in doing this has so far been very bad. At Shamekin, where the local Company undertook to do a great deal of the fort themselves, we had a very great deal of trouble, and our Superintendent had to gy there to superintend the work, notwithstanding at was the local company's place to do it. The followy in consequence of the source they pursued was very great, and decided me to refuse to take contracts in the Cuture, unless the whole of the work was left for

Your truly yours.

Zall

Sopt. 28th.

3

Sociote d' Appareillago Electrique, Geneva, Switzerland.

Doar Sive;-

T have sont you by this mail a set of blue prints of the 100 light maghine as we are building it at the present time. I am thinking of using only one pair of cores, and should this change be made I will forward you blue prints of some. This machine is known here as the "To machine.

Thorn to have the drawings of the 400 (40°) light machine out in the course of two or three days, when I will send a set of blue prints of those.

Vory truly yours,

Taky

Sont. 38th.

German Edison Gesellschaft, 96 heipziger Strasse,

Borlin, Gormany.

Door Sive:-

I have sent you by this mail a set of blue prints of the 100 light machine as we are building it at the present time. I as thinking of using only one paxy of cores, and should this chan change be made. I will forward you blue prints of same. This machine is known here as the "T" machine.

I hope to have the drawings of the 400 (""") light machine out in the course of two or three days, when I will send a set of blue prints of these.

Vory truly yours,

nt. Bth.

Gosars, Harrin & Robinson,

Room J, Trust Co's Building,

Partford, Conn.

Dear Sirs:-

I have your latter of the 37th, inst., in reference to the Martford and Continueton estimates which I precised to send you on the 30th. Hy engander, We Composil, has been ill for the last four days and as still continue to his bed, and it is impossible for as to tell when he will resume over. His absonce from the offices was the cause of the estimates not having been forwarded to you. I regent the circumstances exceedingly, but as you will see it was a seator ever which I had no control, and I may add was totally unlocked for when I had be pressed to send the estimates to you on the 3th.

I an obliged for the information you give in reference to Bridgeport, and will refer that matter to 3n Butchinson of the Taglated Company.

Varybtruly'yours

Private Secretary

Priend Conkline:-

I so very desirons of obtaining a contract to light one or two of the City Institutions where I am cortain I can affect a considerable saving to the city and give better satisfaction.

Their gas system being empecially deflective on Harts and Maries Telands, for which I have made a tender. Would you object to giving no a letter of introduction to fir frees one of the Commissioners having such lighting in charts with a statement that we are reliable pounds, our statements are to be relied upon and that we will undoubtedly perform our work in a satisfactory manner of course they may be reasons my you would not like to do this, if so all right.

Vory truly yours.

1883.09-29

lept. 39th. A

Charles T. Haghas, Esq.

J. S. Hotal,

Nowburgh, N.7

Donr Sir;-

I regret to say that through the illness of my enganer, in Campbell, who has been off daty for the past throe days, and it being impossible for as to tell when he will again propert at the office, the estimates for to-soungh have been delayed. I set doing my best to not there exist for you and will send then at the carliest possible meant, but with this explanation you will no doubt receiving the directions of area in and the great pressure under which we will have to wird in order to keep pace with our business during the daybell's absence.

Very trilly yours,



S Sopt. 29th.

Paul D. Dyor, Esq.

Empire Nouse.

Akron, Ohio,

Dear Sir:-

I have your favor of the 37th, inst. acknowledging

In reference to the latter, I did not intend to alter the form of four conversing, and you can use there as blank books if you choose, but in sending them to you I thought you would probably be able to utilize them to dvantage by entering the lights on the books first and copying them on to the form afterwards. You can however, plans by ourself.

Very truly yours,

October let

á

Charles T. Hughes, Enq.

W. Hotel,

Newburgh, 11.Y

Doar Sir;

I have your latter of September 20th, in reference to details of billding the central station it Headurgh. Un compbell, my orgineer, who candide the estimate for this building, is still confined to his bad, consequently I am unable to send them. The additional estimates are also being delayed for the same reason but all of them will go forward to you at the carliest possible

Vory truly yours,

Iar,

October 1st. 3

Charles T. Bughes, Esq.

U. S. Hotel,

Newburgh, H.Y.

Door Sir :-

In Risen and En Tashill are both in brocken and will probably not be back until the bridge the week. Campbell is still "laid up", and I have get my hands so full that it is impossible for not to touch the Newburgh estimates, at laust for a day or so. I will do all I possible can to send them to you, but you see the fix I am in and the difficulty of meeting your requirements with the despatch which generally characterizes our business.

Vory truly yours,

October Sad.

Samuel Insull, Esq.

Motel Belmont,

Brockton, Hass

Malgar Insull:-

I have received all your numerous communications, and this morning went down to Bergaman's to see about pressure indicators and noters.

I fand without wiring Androws that he requires eix pressure indicators of the new style or five of the old style, as he took one of the old style with him when he was here. I ascortained this from a letter which arrived a day or two age and which was easeng the bundle you gave me. Flein or somebody down their mixed our meter orders all up, but fortunately I get there before anything serious had concurred. As it is there must be "returned from Brockton one 30 light meter. We sent five a light meter for many to Shamohinand he sent for Willight meters in excessing to their other values of our order to Lawrence. I will have all these returned thought we had mixed our orders up, but upoh alalyzing it there withing to found that they had made the mistake themselves, aid, "consequently, walked into a "shipper".

2

T have seen Bradley this afternoon and he goes to Brogkten to-night. I have given him two hydrometers and he is getting all the tools, necessary for finding out the bugs in the conductors, from Chinneck. He is going to Brockton by rail. The Shamekin hydrometers were sent seen whole ago.

The forming to the formal state of the fooders by Sprague. He stood beauth in while I wrote the orders for insterial which he required, and these were not nontioned. I, however, find that there were only is instead of I2 (as you stated) of the old style feeder switches ordered for irrection, and have consequently ordered 10 of the new style plug switches from Hergmann to be shipped at once.

Thays ordered 100 Johnson commentions in accordance with your letter, and have given proper instructions as to the shipping of 50 of them. Reriganin has on hand at the moment 50 of these connections from the last let ordered. These go forward to lawrence at once.

In reference to test bank invitation, Hergmann told no that those were sent forward with some other material to Sprague's address on Saturday. On Henday I told him to send two more, as They had probably gone astray, although it sooms atrange how they

could have done so. I trust that by this time they have been recovered.

I received your Godsond in the shape of \$3,000, and have had some placed to our credit without meeting any opposition at the bank,

I have had all the baby stuff mached in ice and forwarded to the address you gave me. It will be a "cold day for you" when it gots there.

Referring to the macunt which I placed in the Pall River of this tor "Tools" for repairs to underground conductors", at the time I made up the Pall River estimate I had only one bill from Kruoši for tools sent to Brockton, and I was under the improvation that this included all the tools which had been sent there. I should, however, have looked more clearly into the matter and I would have soon wived I hade the mistake. Can we not supply tools to the amount of our estimate for same, and if they want more they can purchase them? I say this merely as a singlestion to try and help myself out of the semane, but privately my opinion is that we will have to supply the whole lot for about one half the price, and that if is through a desired built of mind that we have got to do it.

I have not yet heard of your closing the Fall Raver contract, but I hope to be made Ware of the fact before going to bed to-night.

Everything here is going on all right and there is nothing special to bring you back if you are not fully prepared to come.

Rughes just came in and says he is going to stay right."

here until he gots the Nowhirgh estimates." I have not had a chance to touch them, and I do not know that I should care shout doing it if I had. Campbell had the matter partly in hand, in fact nearly finished it, and If I take it in hand now it will be necessary for me to go through it right from the start, and my "hands are too full to attempte anything of that kind. I expect "Campbell will be here in a day or two. I wrote to him last hight and fractically told him that he must some soon, "notwithstanding

the advice I gave him towards the end of the letter to the effect that he should not go out of the house until quite well. I tried to convey to him the idea that the heartment could not run very well unless he was there himself in about what he was doing as to enable them to know a little about the business in his absence. As it is now he carries meat of the information which I want to get at, such as details of the construction of the station, in his head.

T will got the bills of lading from Hayward, Porry a

Prancklyn to-night, and boon unable to obtain them before that

All have the money in the bank to-motrow morning.

I am delighted to lion about the success you have not

I will go thoroughly through the Lawrence orders, and "
"see that there are no "hitches" when the time comes for starting
up there.

I onclose two lotters from Mr. S. J. Mc. Cutchen. Upon the arrival of the first one, which is the double paned one, I sent him a note saying that Mr. Milson was in Brockton and giving him Mr. Edison's address. The second one is a reply to my note, "above your signature. I do not know whether they are of any

.,

great importance or not, and as I have no means of I and an I prosume the best thing to do is to send them to you.

Tate.

Telephone - Fareign

Office of the

Edison Tolephone Company of Europe, Limited, Mew York, October 2nd, 1803.

To the Directors of the Edison Telephone Co., of Europe, Limited, Duar Sigs:-

Referring to your letter of September

"Tath, in which you achievise he to settle state colonel coursed on the best tense possible on to the division of the 173,000 shares of the Edison-bover-Bell Telephone Consent of Europe, limited, I have to say that I have "fully discussed the matter with Colonel Coursed with a result that he is not sectified with any other than an equal division for the reason set forth in his letter to this Company, dated July 30th. (Extract Annoxed)

I am myself approache to settling with golongl coursed on that basis, but I find that I am personally interested in some of the sharps that he will requive, arising out of the fact that he and I joinely contributed in the Vale to the Satson-wower hell Telephone tempent of several deshibition which did not belong to the Satson Telephone Company of Europe, Limited, namely, Dommark, "Sweden, Norway and Portunal, and because of this personal interest" I may unwilling to take the responsibility of alone settling with Colonel Gourand as actionized by Jour letter above referred to.

I have therefore to request that you will be seen smooth to sign the enclosed letter, if you approve or said, and return it to me at your early convenience. The

October 2nd.

imal t. Syar, Sad

Apare Fouse,

Altron, Ohio

Door Sar:-

I am in receipt of your several favors of the past yook, and I am sending to your Address twelve now estalogues, and I would impress upon you the measurity of using those very judiciously, as they seek I combs spaces.

in Stuart has been here for the past week obtaining information, and I think we have pastisfied him on a great many points about which he was in doubt, and I have reason to believe that affairs in this will be pushed to more advantage new than they ever have been before.

We are much obliged for the way in with you keep us posted as to the workings of rival companies. I think that the wave you speak of will soon summence relling through this, and we it is already assauling very fair duadrisions in the Mast, and we anticipate to do good work through this in the Spring. It is rather late to decisions work there now, as in a few weeks frest will set in.

Yory truly yours,

AJ,

october and.

P. B. Shaw, Esq.

Williamsport, Johns

Door Sir;-

I main receipt of your favors of the Mith. ulto., one addressed to In Mison and the other to myself.

In reference to the former I would may that we had no such arrangements with in Hallon an you mention. We were to run the station for thirty days after it was ready to supply light; we made no surcents to run it for thirty days after a new wind was supplied. I will, however, attend to this matter when I meet you on the oth, and. I can foreste nothing new to prevent no free looping this engagement.

very kruly yours,

SJ

October 3nd.

A. Stunet, Roy. Socty.

Cincinnati, Ohio

Door Sir:-

I am in receipt of your favor of the Morellato, and have to-day sont you under assigned sover the chart of Haddlatown showing the total member of lights in the district ranked off, the average burning of witch amounts to 1973 lights for four hours and fifty nine minutes.

I also soul to. a form of agreement between ourselven
and the local company. In each case the payments are as follows:

25 of the total assumt of the contract upon the aigning
of the agreement; 36 of sizes when the installation is ready to
supply light, and the resulting the after the installation has
been in condition to supply light for thirty days.

Tousting that this will most with your requirements, I

Vory truly yours.

J J

Englineage

Gatober 2nd.

John R. Campbell, Enq.

care F. B. Shaw,

Williamsport, Panna.

boar Sir;-

I am in receipt of your coveral favors is reference to parmits and concessions for running our lines in Williamsport.

I consider that you made a matchle when you first went to filliamsport in not finding that definately what the idea of the Villiamsport Occupant was in reference to your obtaining those permits. As it is they first decided to obtain them themselves, and after delaying you in Villiamsport reconsidered the matter and allowed you to go should with the work which you were sent there to do. This matter will prove very expensive to us in comparison with what it should have cost had you gotten through with it in a reasonable length of time.

In future it would be well for you to sound local authorities to better advantage than you have done in this case and try '
to obtain their ultimate ideas from the start, as we cannot afford
to allow you to wait in each place an excassive length of time, in
order to allow the companies there to change their minds \$\rho\$ half
a dozen times.

I will send for some Molley either to-morrow or the next

tay, with instructions as to whore you are to go next

ory truly yours,





Thite Plains, N. W.

my Seas Compbell!

T got your talegrow this morning talling us to make allowance for makes in the construction of the Mail River building. Inaggeth as the ground is of rock, we have made allowance for the necessary excavations, and it will havely be possible to drive place through such a substance.

Bughos is still awitating additional astmatos for Rowburgh. Those I am unable to send him as I have not get a map which is properly marked. You will remember that one of the feeders was sub-replaced a certain street and run around towards the top of the map.

Harris a Robinson continue to "Kick" about Southington,
I hope to send these Hartford to herrow.

the Edinon and the thoull are both away and that not be back until the end of the week, and I have no take to propare estimates.

T have got all the plans of the west Shore & Buffalo.

buildings which we are requested to bid for. The Ohio business

ctil remains in abovence.

2

I morely sond you thin to let you know how we are getting about you and to illustrate that your very valuable services are missed. I hope you are much better and that nothing serious has developed in your case, and would impress upon you the advisability of not exempt out of the house too soon, as this is saidtings a fatal mistake made by your follow invalids.

bron no a line and lot he know how you are getting along.
Sincorely yours,

are Fali

Octuber 3rd

.

7. S. Andrews, Enq.

Masional Notal,

Shwaokin, Forma.

Done Sir;

Paterring to your favor of September sith, in reference to pressure indicators, I beg to say that I have ordered forward six of the new style pressure indicators to your address at Shamolin.

Regarding 30 candle power lauge to he has a company want any of these they can obtain them by ordering through the light Company, as you understand all orders for lauge must be submitted through that source.

Yory truly yours,

Si

October 3rd

.

G. C. Sims, Esq. Supt.

caro Amnington & Sins Co

Providence, R. T.

W. Qoar Sins:-

the office has sont you to-day a chock for 31,375., which you will receive by the says mail as this letter. I have also sent to Edison to-day a note for 31,375., dated container 33nd, and running three months, bringing at due on the 33th. December. I have requested Mc Edison to sign it and would to you associately he ages it, and would suggest that you telephone him about claven o'alow to-survey at the Brockton central station, and ask him whether he has sent it to you, and if not, request him to do so immediately. This will insure your getting it.

If you will sond no a momorandum of the cost of the discounting, I will sond you a check for smap.

Vary writy yours,

81

October 3rd, 1883.

Gustav Soldan, Esq. Supt.

104 Sourck Street, Caty.

Door Sirt-

The Electric Tube Company will ship you in a day or two a B tube junction box to be finished. Please push this through with the utmost speed, as the box is for Jawrence and a delay would be very serious.

Yours truly,

Sol

ctubor Ord.

W. S. Androws, Bag.

Showolin, Ponna.

Door Sirt- ..

Your latter of the lat. inst. to En Insull, enclosing statement of account, has been received. I will have the latter checked and advise you as to the Femula.

T received a telegral to-day from Un Insull, who is at Breekton, stating that he had authorized you to draw on us at one day'd sight for alon. This I presume will struighten out your frienders.

The Brockton station was started with great success, and un insull advises no that everything is perfect in connection with the building.

very truly yours,

Da allot



W. H. Dwelloy, Jr., Esq. Troas.

Edison Floctric Illuminating Co.

Pall Rivor, : Mass.

Doar Sir:-

T boy to hand you howeith an estimate for the erection of a central station plant at Fall River, amounting to \$41,900.00.

You will notice in the estimate that I have covered the point requested by you, havely, that the stack should be put in large enough for the boiler capacity required for 4600 lights. I have also established in the estimate that the vater connection is to be taken from the river, in solution to the connection of the station with the street mains.

I further enclose you two copies of an agreement, addy excepted by no as 19: Edison's Power of Atterney, and should be glad if you will return one executed by Nr. Dow, as President, and yourself, as Treasurer, together with a check for 34,180.90, being ten per cent of the assumt of the estimate payable on the centract being signed.

A blue print of Pall River neat you herewith forms
Edifibit A to the centract and the detimate Exhibit N. These two
should be attached to the copy of the centract which you retain.

With reference to the details of the work, the reor thinbers shall be two inches deeper than those at brockton, and planed in compliance with the suggestion of in terms Bordon. The plant will of the same character as that at brockton and the work finished off in the same style.

In the blue print of the central station, which I send you herewith, you will notice that the buildrs and engines xxix have been turned around as suggested by you. The space in the boiler room is suply sufficient to enable us to add two more boil of 140 horse power each, The boilers we now propose to put in are two 73 horse power boilers set in one battery, or, in other words, a double 146 horse power boiler. This is done in order to got a subdivision of the boiler power. Any future extension we would propose installing a single 146 horse power boiler, that is a boiler with one furnace. The total boiler power would then onable you to take care of 3200 lights, then when you require to mako a further extension we would take in another 140 horse power single furnace boiler, which would bring your boiler capacity up to 4600 lights. There is planty of room to do this in the building as at present designed, and the subdivision of boiler power. which you will then have, will be quite sufficient, as with a total plant of 4000 lights you would have what is practically four

distinct boilors to take care of same.

There given the orders to-day for our material, and the sure vall pushed on as vigorously as possible in order to get the installation completed within the shortest possible period.

I will advise you from time to time as to our progress, and will doubtless be able to tell you within a week or ten days the date that we shall consensed Laying our tubes, which is, as you understand, the next troublessme part of the work.

Very bruly yours,

less

Enclosure,

Octuber 3rd.

W. H. Swelley, Jr. Esq. Treas.

Edison Blockric Illuminating Co.

Fall Rivor, Bass.

Door Sir;-

I enclose you herewith a certified copy of my Power of Autorney from in Edison, which it would be as well for you to file in your office, inamuch as the agreement with him is signed by

Vory truly yours,

3

October 3rd

:3

Thomas A. Edison, Esq.

caro W. J. Sonks, Sunagor,

Brockton, Mass.

Barran Edison:-

I enclose you herewith a note for \$1,375, due the 25th, becomber and in favor of the Armington & Sime Company.
Plage sign this and send it to this in the enclosed envelope IMERITATELY you set this. Do not fail to do this, as I precised Sime jesterday that he should have it in order to enable him to meet his payroll, which is due to-morrow or the next day.
I have sent him a check to-day for the arms amount as the note, and the two tegether will settle up our construction Department, account with Armington & Simé for last meeth, in fact will clear up everything with the exception of the large engine chipped to have discussed to that settle that I shall easily be able to take care of the payment of saws.

Vory truly yours,

S

Enclosuro.

October 4th.

Frank H. Mc. Comitch, Enq.

Williamsport, Ponns.

Bear Bir:-

I has to apologise for not having missored zone favor of the luth, Saptember before this.

in Edison and nysolf have found it necessary to be away from low fort so much of late that this, together with some other matters, him entirely enemed attention. I have been employering to go to Sundary and willisuspect for some time past, but up to the promist have found it impracticable. I have, however, hide an engaging with Mr. Show to meet him in Williamsport on Bonday next, the inth, and I will at the sem time to out have the pleasure of meeting for and arranging with you as to the transfer of the stock.

A Overy truly yours,

3

October 4th

:3

non. ness

11. 12 9 g

Sir;-

I have the pleasure to enclose you herewith a letter from the Non. Rescor conding to your good self introducing on Edicon to you.

On Edison is absent from the city at the present tipe, and will not be been until "order" meet, I therefore desired it exvisable to forward this letter to you by the hand of the Rissell.

On Mr. Edison's return, he will doubtless do himself the pleasure of renewing his acquaintance with you.

Very respectfully yours,

Private Secretary,

Enclosure.

October 4th

٠.

onry A. Clark, Esq

Erio, Ponne

Doar Sir:-

I have the plansure to acknowledge the receipt of your favor of the lat. inst., and in reply beg to say that we can complete the work at Eric within sixty days after the signing of the contract. You will no doubt approximate the necessity of cleaning this matter quickly, if it is the intention of the Eric Company to do mything this year, as very soon axis frost will set in and it will be impossible for us to set poles and make other necessary exceptions.

Yary truly yours

J, a, e

Detobor 4th.

C. H. dampbell, Esq.

White Plains, N. Y.

my hour Campbell:-

T have received any answer yot to the letter

I wrote you the other day, and I prefer you have either been too

T got the Rowburgh husingss fixed up with hughes this other than bump Sum bids by Letter Other matters in morning without sonding any other estimates. relation to estimates are still "hanging on", and there is one point which laughos wants vory builty that I am unable to give him. and I wired you about it yesterday, needly, the details of the building. The Newburgh Company desire to have a specification of the building you prepose to erect for the central station, ax in order that they may obtain a bid on away from some local builder, who is appears will take the amount of his contract in stock. Wo should like very week to give this information at the carliest possible homont. The abount you allowed for this structure was 33,100., the building to be of brick. There are no accessible dotail's in the office, and I prosume that you carry this informa tion in your head, just where we tannot get at it. Can you assist us any from where you sit IT hope by this take you are able to mit un). ?

Octuber 4th

25

I made up the Pall River estingto agents. It is for some lights, with street installation exhaulted to dever home the lights, and the sotal meant is billing, m. I allowed for freight and carters with, for divided work abouts the, and about 3073. for the expension of the electrical, noter and engineering experts, while starting the station. The other items were under up in the issual names. This estillate was accounted and the contract closes on about a work, and we are going right about with the work.

I hope you will be able to deen out soon, as things are consumming to "boos", and there are two or three more contracts which it sooms to me we are likely to get before cold weather sets in.

nattore we "tackle" any new work there are a lot of old matters in the office which I should like to get cleaned up and I commot be it without your assistance. When do you think you will be able to come hack means

Trusting that you are rapidly progressing towards con-

Sincorely yours,

acy

Octobor 4th.

A. A. Cowles, Esq. Secty.

Ansonia Brass & Copper Co.

In Cliff Stroot, City

Done Sir:-

I onclose you have sith an order for copier rods to be sent to the Electric Table Company. Those rods are to go in tubes, which will be laid as rall River, under a contract we have with the Edison Electric Tlumination Company of Pall River.

It is very important that this order should be pushed forward as quickly as possible, as we have but a comparitively short time to make up the tubes and get them laid before front comes on. We shall therefore he glad if you will make an extra effort to get them out quickly for us.

r will call down to moving and show you in Edison's contract with the Mall River Company and give you will explanation as to the matter, which I feel sive will be entirely to your satisfaction, we the parties in the crost with us in this matter are of the yory bost.

Yory truly yours,

1. 200

October 4th.

- 3

J. R. Campball, Rsq.

maky Notel,

Williamsport, Penna.

Door Sir:-

in folly bas to state that I did not intuid by letter of the Sad. institute to be interpreted as a consure, I indeavored simply to point out the platake which any one olse, plaged in the seas position, would be limbe to coset. I will see that there are no serve delays as regards sage, and will also have then properly marked perfore somiting than to you.

I send you by this real, under separate door,

T have your telegrad of to-day's date stating the wore general flet to draw at state to provent delay, which this instance in quite satisfactory.

Augh, thall hor

1, a, e,

October 4th.

the second second second

Milligasport, Pouna.

Donr Sir;-

t have your latter of Med Mith, ulto, and in reply bo to state that I will be in villianmout on Hundry next, the lish ingt, where I shall have such pleasure in heating You.

Vory traly yours

2, 3,

. natubo: 4th, 👸

s. A. Edison, Esq.

gard 7. J. Jents, Esq.

twochton, i-ass.

ng Doar Edison:-

chat the telephone matter should be noticed vary. He says that the telephone matter should be noticed vary. He says that he speak to you should the matter of the cover-hell stock, ad and I understand his proposition to be that the cover-hell stock, ad and I understand his proposition to be that the reliphone company of Europe should take half the stock and he take the other half, on account of the countries he paid in under the approach to be a pour and himself. Will you ploase were no instructions in this matter the first slying to-morrow morning, so that I can have the necessary papers propared. If you will authorize no to indictate, with individual, I will and one to help the help the down, as considering the dual capacity you hold as President of the furdecan foliphone. Of party interested both to furdecan to party interested by the tops to party interested to go an good towns for the European Cannot all the your unuses to got as good towns for the European Cannot all passable, as otherwise the matter which look had if brought up arterwards.

I got an order this norming for 15,000 laws for lordin and 2,000 large for londer. The first order is in consequence of our reduction in terms, Moving the good pulses of making the

roduction

I my very sorry that you did not receive that matter from the printers, but you must bloom the extress company and not our office, as it was all sont off Trom here on Tuesday.

Ploase wire me stating absolutely then you will be buck.

J. vant around to soo Mrs. Edison this morning and she sould M considerably better. She is going to neve this afternoon, and the degler has undertaken to accommany her, in ease or any stables. I shall wire you to-might stating mother the moving proved disadvantageous to Mor of Table.

I have the honor to be (a la Anglaise), Sir,

Your most obedient and Paithful Sarvage

8)

Addisonation of St. St. December 2

Detubor 3th.

100

John P. Smith, Esq.

143 East 33rd, Stroot, City,

Door Sir:-

be gird if you will soo to the watching of mass, and prevent your bill at the above address each month.

Taly,

. .

1883-10-05

October 5th.

.

Priond Beach :-

I send you herewith an interesting article suitable for your columns on "Stirage Unitaries" written by Mr. Sponcer Bordon of Pall River, who sent it to me and asked my opinion.

I think it a very correct article and thought possibly

Vory truly yours,

Tak,

ctober 5th.

arles Batchelor, Esq.

Paris, Franco.

Doar Sir:-

Referring to a cable confirmed elsewhere, I bed to inferry yea that I wired you with relation to the Armangton at the requests of Gov. Heaven and Mr. Mans.

They do not uniteristand may you are unable to deal with draington, and if your people are fabilly anxious to get the envine, I can make Tayorable torus here.

Vory truly yours, .

Jak

1883-10-05

October 5th.

J. U. Mackonzie, Esq.

466 Vandorbilt Avonue,

Brooklyn, N.Y.

Doar Sir;-

I wrote you semetime ago asking for the recipe for the duplicating ink which we used to make up at Menle. I have not at this writing received the same, and if you will again so for oblige me I shall be glad if you will let me have the receipt.

Vory truly yours,

October Sti

. 3

Fadamo Mearces,

333 Madison Venue, dity.

Madam:-

If you have a gasame, in your school for a likelo girl ton yours old, En Edison would like to send his daughter as a day scholar.

He desires that she should take lunch with the really,

If you have a vacancy, will you please let me know at
your early convenience that your terms would be and how soon you
would desire likes Edison to convenie her stations

Yours very thuly.

P-S



October 5th, 3883.

Joseph S. Forrell, Esq.

Southwark Poundry & Machino Co. 430 Washington Avonuo, Phaladolphia, Jonua.

Boor Sir:

Your favor of the 3rd, anst, cane to hand during the absence of the Edison and axisolf from town. I returned this sern-ing but 39 Edison will not be back until next week.

I megret very such that you should fool compelled to write a letter in the spirit in which you have, and can assure you that the settlement of the matter would have been made ore this had not circumstances absolutely provented in Edison from doing so.

the Mikan has been away a very great deal lately and so have T, and in a have the harmoned that we have solden been here at the same time and have therefore been unable to discuss the matter of your outstanding claim and arranged settlement.

At this writing it is impossible for us to make a settlement, but I can promise to mend you to sorrow a note for 32,000, and possibly \$300. more. The note will be that of the Misson Company for Isolated Lighting, with Mr Misson's endersement, and I trust that you will take this as an earnest of our desire to make a sattlement with you as early as possible.

I shall be glad if you will wire me in the morning sta-

1883-10-05

whother this will be satisfactory to you.

We have had the engine at Georgh Street ready for you to use for some time past, but so far nothing has been done there with relation to the experiment which you promined to make.

Till you ploase wivise us with relation to this matter, and greatly oblige,

Yory truly yours,

S.J. O.J.

October Oth.

- 3

W. H. Dwelloy, Jr., Esq. Trons.

Edison Blockwie Dluminsting Co.

Fall River, .: Hass.

Dear Sir:-

I beg to acknowledge with thanks your favor of the 3th, inst. enclosing copy of the agreement between us duly excutes, also your check for \$4,186,88, the same being ten per cent of the amount of our estimate.

Very truly yours

October 3th.

з,

C. W. Rogars, Esq. Vice Prest.

Maetere Railway Co. of The U.S.

Wills Building, Gity.

Dear Siv:-

This will introduce to you in 2.8. Pract of London, who is desirous of looking into the matter of electric railroads.

If you have the railroad at Hende Park in operation and can arrange with him to see it, "shall eston it a favor.

Yory truly yours,

Taky

Middletoun + Mr. Schumaker

October 6th.

A. Stuart, Esq. Socty.

Cincinnati, Chio.

Done Sir:-

By converge, He byer, writes no from Uron, Chao, and says, a St. Schmader, the Probabition Candidate for severnor of Ohio and the largest property e-may in the city of Akron, was, when St. Dyor first not him, on the point of purchasing a 1.0 light Prush-Svan plant for his mill and office and intended to use a storage battery in connection With same. He byer says that he has demonstrated to St. Schmader the inefficiency of those batteries, and, furthermore, state that you will find it advantageous to open commitmentation with him Schmader) as early as possible.

Regarding the 300 light plant for Middletown for which I was to send you an estimate this week, not know any annual to the house through Allness. I have; however, had the estimate predered and it is nearly completed and will be forwarded to you on Monday. You will no doubt understand from this that the the delay was unavoidable.

Vary truly yours,

October 7th. 1883.

Southwark Foundry & Hacking Co.

430 Wahington Avenue,

Phila, Ponna.

"Doar Sirs:-

I received your telegram youterday, and have the pleasure to enclose you herewith note for \$2,000. of the Edison Company for Igolated Lighting endorsed by Mn Edison, who has returned to the City, this morning.

Please credit this to the account of the Edison Machine

Very truly yours,

SJ

. October Mah

W. F. breaster, Osq.

Southern Notel,

St. Louis. So

Bear Sir:-

In reference to a canvass of hew Orleans, we bon to say that we sould advise not making this at present. We think it would be desirable to wit until the Stilouis business is satisfied before going to the expense of making other curvames in the South, as it is our desire to keep the expense down to the lowest permitted figure and not make converses except when we are quite sure that money will come from these. If, however, Captuin Boffinger is willing to pay for this canvass of now orleans, we will of course make it under his instructions, but otherwise we would prefer not making it for the present.

Vory truly yours

Taked.

October at

3

Western Electric Co.

62-Gu Now Church Street, City.

Doar Sirs:-

Referring to your order Re. ORF, under date of October 4th, and which we return the result, we very much regret to state that we have not get on hand the carbons which you desire, and as "we have broken or our laboratory we have disconsiding instant them. Would it not be lessable for you to had a those yours If,

We should much profer you to deal with the matter in this manner?

Lary

Enclosure

October 16th

0

John Kruasi, Esq

33 Mashington Street, Sity.

Joor Sir;-

Referring to the attached telegram from the Transurer of the Larrence company, does your bod for the additional underground conductors take in the extension is lord refers to?

Places let me have a roply by bearer.

Yory truly yours,

21



October Uth.

"Socretary."

Edison Electric Edish Co., Limited, 74 Coloman Street,

London, R. d. England.

Boar Sar:-

We beg to ashowledge reseipt of your latter of the 35th, ulte, signed by Mr cland Scott covering orders Nos. 911 and 913.

The reduction in prices for lamps was made subject to orders being given us for 10,000 Jamps. The prices quoted to you were figured down as low an possible, provided lamps were endorsed in the quantities named. It is quite impossible for us to vary the offer sude to you in our favor of the 13th, alto., and unless you are prepared to order in accordance with that latter, the prices must stand the same as those given to you. There is not sufficient margin in the manufacture of lamps to allow of any modification, anless upon the quantities stated to you in ours of the latte.

We accordingly colled you to-day that we could only fill the orders at the old prices, unless you were prepared to give us

ry thully yours,

Octobor 8th.

Charles T. Hughes, Esq.

U. S. Hotel,

Howburgh, R.Y.

Door Sir;-

Referring to your favor of the 4th, inst., we see to say that it is not our intention to make any more detailed estimates for new burgh, as we consider that the information given in our letter under date of October 4th, is all that you can possibly want in submitting the matter to the wearburgh company.

In this lotter we show the reductions which we will note an the street installation and electrical part of the datamate, providing you decide to cut off the mains and fooder as described therein, and a further estimate would simply be a duplicate of the one you have embodying the alterations mentioned in our letter of the 4th. inst.

We will send you by to-morrow's mail blue print and specification of the building which we propose to eract at Now-burgh, and you will find the information shich we give you on that is necessary for an outsider to have in order to bid for the droction of sweet.

The statement of profits wall accompany them.

Very truly jours,



October 6th

34

ers. T. A. Edlayn,

· Usig,

My Dear Mrs. Edison;-

Can I sell the gray pony and the children's wagen and brown harness for \$100.7 This is the best offer that I can get for it. Johnny tells his the sugen is very mach dilapidated and the pony is worth comparisively little.

Places give no an answer by bearer, as I want to reply to the effor to-day.

I will try to get around to see you this evening.

Very truly yours,

81

Outobor Sth.

W. D. Rich, Esq.

cara Edison El settie Illuminating Co.

Lawrence, Mass.

Doar Sir:-

I enclose you herewith two blue prints, one showing the foundations of the Wall Siver building and the other the general interful arrangement of the station. I also attach an office copy of our estimate, and would call your attention to the fact the prices govern a guidance of the station of the fact.

To have placed our orders for the bollers, emission, dynames and steam and exhaust paping, so that there will be no delay when you are ready to have dd whip this material. We have also ordered foundation caps, welts and washers.

Referring to the column for not cost, do you not than it would be a good idea for you to fill in opposit such item (the contest of which is only accessible to you) the actual amount expended in connection with sum. I refer to foundations, boller hearth, cost of holsting a guying, stack, and you might also give the cost of the labor in connection with the hanging and direct of steam and exhaust piping ad. This would prove to be very valuable information to us and we shall be glad if you will find these costs as accurately as possible.

October 8th. S

C. R. Spiors, Esq.

283 Surray Stroot, City.

Donr Sir;-

Ht Edison wants to see you to-merrow (Tuesday) at twelve o clock sure.

Yory truly yours,

SI

October Uth

34

0. A. Moorass, Esq.

Kristiansund, Morway,

Dear Sir:-

Referring to your favor of October 6th., I had to inform you that the instrument you refer to for the assistance of deaf people was never perfected, owing to my having to give my attention to other matters. I hope, however, at some future day to take it up and deal with it again, but at this writing cannot say when it will be.

With relation to electric lighting, I think the best think you can do is to write to Mr Railey, who will doubtless communicate with you and sive you the information.

Very truly yours,

Haly

Octuber uth.

.

A. S. Kissoll, Req.

knoxville, Yenn.

Doar Sir:-

Your favor of the 3rd. inst. came to herd during my absonce from bown

In reply, I be: to state that the only way that we would make an estimate is to have a regular canvass of the term made, and on the dat; thus obtained make our tender in the regular manner.

There would be no necessity to have an electrician to run the station. One engineer and one meteraan is quite suffreiont. Sambury with 300 lights, Shasokin with 1800 and Brockton
with 1800 are run by two men, the metersan helping the engineer
from 3 P.M. until 10 P.H., after which hour the main load is nearly
off, the engineer runs the balance of the might and the reteman
comes on at 10 in the morning, attends to the meterwork, bookkeeping, collects bills and turns the miney over to the Trainver of
the Company. The indeed arrang is done by a local plumber, who
is taught the work by our experienched to any of the inside aircover,
and policy to have the local company to any of the inside aircover,
dis if they do the consumers will play off the light against their
wire bill.

2

If you will write bajor Baton that the prospects are good for organizing a company he will order us to side a canvass, and we will push through the work as quickly as possible.

If they require us to do the work, we are willing to take a contract, providing they leave the field of is to us. We are not, however, prepared to let them do part of is and take a contract for the remainder. Our experience with this method of procedure at Shamekin compels us to take this course, we it ends in increasing the day size and causes great delay, and gives methor water-faction to the local company nor to ourselves.

Yory truly yours,

October 9th, 1863

Cuntay Soldan, Esq. Supt.

104 Goord Stroot, city.

Doar Sir;-

Thon to give you below an extract from a letter which Un Russen has received from Mr. Ratchemer:-

" 180 light machine. I have just altered an J to give life large quite easy and it works your well indeed,

Areature: - would like a H 18 wires No. 10 each coil. resistance 0.030 ohms.

Each core wound with 10% lbs. No.16 wire, paper on core but after the bettem layer no paper.

The wire mass through a het solution of mara-

fin and resin on the lathe during winding.

Tost, 1,200 turns

140 Amiores.

110 Volts.

F Dynamo. I have altered all the F dynamos, we had commoned to give 1000 turns instead of 2400 which is a speed which gives no satisfaction in the hands of the public.

Armarure:- Instead of 2 wires 8 turns around I make 2 vires 12 turns around, this makes the armature more resistance but them we can easily sell them at that."

October 9th.

3

L. V. Serroll, Esq.

140 Massau Stroot, City.

Door Sir:-

I do not think there is any necessity to take an appeal in the first count of the Nicholson case.

Very truly yours,

Take

netubor 9th.

Goorgo W. Wilbur, Enq.

cave W. J. Jeake,

Brockton, Mass

Done Bir:-

Florage advise me as early as possible how meen you will be through conversant broadton. I would very much like to start canvassing hiburn, N.Y. early next week. If you can so there earlier, so such the better.

Yours trade

Octobby 951

.3

J. H. Bouty, Roq.

Shamokin, Ponna.

. .

W private secretary, in themli, will be in Whrackin althor Vednesday or Thursday, in order to arrange with you for the settlement of as account for the installation of the central station at Whatkin.

2all

October 9th.

Frank S. Marr, Esq. Troas.

Edison Electric Illuminating Go.

Sunbury, Penna.

Doar Sir:-

Performing to your Eaver of the fird, October melowing purgraph from the "Public Ledger", I here to inform you that, there was no fire, except in a service pipe four feet underground and where there was no safety easely. To fire one or has ever happened in our district, and we have reduced the average fires thirty five per contractable the average fires thirty five

Yory truly yours,

Tale

1883-10-00

October Uth.

3

Monero. Mergann & Se.

Bus Avenue, B, Sity.

Donr Sirs;-

I employe for herewith a two bouchs note for \$3,24,03 in destingent of our laboratory measure. By books agree exactly with yours on this account, no this electron as off until October lab

I also quelose you a three months note for \$3,990,03.

I make this amount up as follows:-

S1, 340.43 amount did four viring department by our construction department, according to our books and \$730.30 amount due your firm by our construction department, also according to our books. This beaves a difference of \$310.01 due to your according to your books, and which we do not appear at this writing to have on our books. In this wall communicate with you during the week with a view to straightening the master out, when we will endeaver to hand your a check for the balance.

I also unclose you a check for 83,000.00, on account of your account ugazant the Edgeson Electric Light Company. You should mad come one up to sign a voucher for this.

Will you please send as a check for \$1,400., in return for the check which I gave you on Waturday. I will deposit that check to-day, with the one I now have here for soon., lise this

arternoon, no they will not not into your bank until to-morron
Yory truly yours,

S

Enclosuro.

Detabas Oth

3

A. E. Beach, Esc

201 Broadway, City.

Dear Sar;-

Referring to yours of the Uth. Inst., I will find out from the writer of the article whether he would like his name published. By impression is that he would prefer to assume a new do piume.

Very truly yours

Jak

New York, October oth. 1888.

Cossrs. G. R. Couraud, Joshua Franklin Bailey & Thoodore Puskas

. Dear Sirs;-

The undersigned active for and by authority of the misson Telephone Company of Rurele, limited, and also for himself individually as co-vendor under the agreement desed 10th.

Now saber, liabl, between T. A. Edition, The Edition Telephone tone-pany of Europe, Jamited, and the Edition-Governedill Telephone company of Europe, Jamited, you are hereby authorized and directed to transfer the 175,000 shares of the Edition-Governedill Telephone Company of Europe, Jamited, nowhet and any name, into the names and to the amounts as follows, vaxi
1. The Edition Telephone Co. of Editope, 184,000

Witness

The Eduson Tolophone Company of Europe, Jaid.

Prosident.

Witness.

Gustav Soldan, Esq. Supt.

104 Goorek Street, Gity

Dear Sir:-

Horo is an extract from our motorman at Shamokin,

"I have fitted to one of the dynamos i couple of strais' by which the brushes may be raised from the commutator when shutting down. The arrangement is as in the following sketch.

All the is microstary is to pull the strip and catch the ring over the new fid ring is placed a nuckle to allow of adjusting the

lift. At the end of each strap is a small stick which is caught under the brushes (as shown at W. 1.)
The fullder are screwed to the constant of the dyname. There is didding slass to allow of shifting the brushes when necessary during a

Fun. The arrangement works gasily and the entire cost is about \$.90 Mat do you think of the idea?"

Your to

October 10t

Mossrs, Borgmann & Co.

202 Avonuo B. Sity

light coppers also you remember are too short."

Doar Sirs:-

I best to save you below extract from a letter received by she Educen from our meterach, an conent, who is now at Shamekint"The copper sires on the S light plates, as you know, are extra long to allow for the small plate. This is all right, but sometime has sent me a lot of TS Tight makens plates which for some from an effect with S light copper warps, go that to get show into the meter they must be out down, and we cannot wasted same in sonding these back but this should not happen again. The 33

Vory trul __yours

Messrs. Stigman & Mc. Carty

Brownesville, Toxas.

Doar Sirst-

Replying to your favor of the Ath, September, we beg to say that at Sunbury, Penna, we have installed a 500 Edison.

Electric light Plant, the cost of which, with building and everything jut up complete, was 514,300; at Shamokin, Penna, we have a 1000 light plant, the cost of same doublete being \$10,000; and we have also, a 1000 light plant at Brookfor, which was installed at a cost of \$31,000. All field plants are working perfectly, and consumers of the light may that they are thoroughly satisfied with it and would not on any account use gas when they can obtain our light.

We would suggest your sonding maps of both the towns mentioned in your letter, and if possible stop the operations of the are light people.

Vory truly yours.

Lake

Ogtober 10th

9

E. H. Lord, Esq. Treas.

Educon Electric Illuminating Co.

lawrence, lass.

Door Sir!-

I am in receipt of your telegram of last might stating that the resulting of the tremedee is unsatisfactory. I also resolved another telegram and letter from you this morning in reference to the extension of your system on both sides of Essex Street.

I have referred this and the matter of the imaginarectory refilling of the typiches to the Electric Tube Commany, who wall instruct their recenant at lawrence to have this work properly done.

The three 100 light meters which you ask for will be

Very truly yours,

Tak

F. J. Sprague, Enq.

Hotal Helmont,

Brock ton, liass.

Dodr Sirt- .

I sond you herewith maps of Middletown, Ohio and

Norwich to underground - Middletown Fire line.
Lindy los no boyo these as soon as possible, and obline,

Yours truly,

Jaly

3

Mossrs. Hergmann & do.

202 Avenue B, dity

Dour Sirs:-

Referring to your invoice of October lith, for one main ampore indicator for shamokin, which appears to have been ordered by Mr. Andrews, we had in future that you would not accept orders for material on account of the denstruction department unless they are insued from this office, us it causes grait confusion and we have know what material is being supplied for our stations.

vory traly yours,

Tale,

W. S. Andrews, Sag.

care J. J. Jonks, Managor,

Grock ton, Mans.

Donr Sir:-

I do in receipt this moraing of two involves from slens:
Bergsann & Co., each for an ampere indicator forwarded to Shambkin,
one of which has been supplied by an order from this effice and
the other by verbal order from yourself.

We do not understand what use you can have at shamekin.

In future when you require material destining the profession of this office, as it is ampossible for us to keep track of our business unless we know exactly what is going on.

Very truly yours

Taky

Electric July

October 10th.

٠.

Blockric Yubo Co.

05 Washington Street, City

Doar Sirs:-

I am this morning in receipt of a letter from the Treasurer effithe Lawrence Company stating that their system must be extended on both sides of Essex Street.

A few days ago I referred a telegram in reference to this extension, in reply to which you stated that your had for additional underground conductors required at Lawrence covered this extension. I received another telegram has unsatisfactory, and that the refilling of the trunches was unsatisfactory, and that your forcam would not repair the damage. We shall be glid if you will also both these matters your immediate attention, and acceptain what has given rise to the complaint which in Lord males, and have the matter adjusted is quickly as possible.

Vory truly jours.

Taky

Octuber 10th.

W. S. Dwelley, Jr., Esq. Treas.

Edison Electric Illuminating Co.

Pall Rivor, mass.

Dear Sir:-

In reply to your ravor of the bth. inst., we ben to any that everything at Fall River will so should with all possible does atch, and in Rich will be there in good tame.

The Religion is at the moment working out his school for viring, and so would suggest strongly the advisability of your not making any process to the public about wiring or prices of the light, otherwise it will severally interferently us Religion's arrangements, as it did at Brackton, where all the wiring must be done over and where they started too low on the price of the light, and installed for some light than parties required, thus running up their bills unnecessarily. You can rest assured that work will be proceeded with to your instrumentation, and that no time will be lost by us.

Vory truly yours.

A. A. Cowles, Esq. Socty.

Ansonia Brass & Copier Co.

19 cliff Street, city.

Bonr Stree

I ben to enclose you herewith copy of my Power of Attorney from se Edison, as promised.

Very truly yours,

7. S. Andrews, Asq.

Franklin House,

Lawrence, Mass

Doar Sir:-

At Jawrence it is proposed to put will anothines to take the place of the one sod light spars machine, and this will require a different regulator to what we have been putting in in distances already started.

se have got to provide for running, first, the two regular machines, second, for one of the spare machines on either side, third, for one of the spare machines on each side, fourth, for both of the spare machines of one side or the other side, as the case may be. Now is your satch going to take care of this, and how are the regulators going to be arranged to take care of ity

Will you ploase study up this matter and lot us have your ideas at early as possible, and in doing so please remember that an "p" regulator costs us 450., and that we want to keep the expense of the regulation down as low as possible, computable with its completeness. Of course you may think of sume other points that we have to take care of basides the above enumerated, it so, allow for it.

Very traly yours

I.J. y

Goorgo'S. ladd, Esq.

222 Sansome Stroom

San Francisco, Call.

"Djaboarrier:-

I am obliged to you for four favor of the 3rd, inst., and must thank you for the trouble you have taken with relation to our light for Mexico. It is, however, a matter with which I am personally unable to deal, it Mexico is controlled by the Edicon Floring light Company, she I think have a construct with conde one in Analysis of Mexico.

I have referred your lette to Major Eaton, and he will doubtless communicate with you giving you detailed information on the subject.

With kind regards, I remain, ...

Vory truly yours

al #7

Faul D. Dyor, Esq

Post Office.

FansasaGity2 Mc

Dear Sir:-

T telegraphed you to synthiams, My, requesting you to canvass baseds City.

Mr. William P. Browster; the special agent of the Edison, Electric light Co., desires for to see Mr. V. H. Winants, Gashier, Armour Brothers Hamking Co.

It is proposed to put a plant in Ransas city of 4000. lights, so you will have to take in as large an area as possible.

I know it is quite unnecessary to urge you to harry through the canvans, but I may as well stite that we are waiting to got out the estimates and of course can do nothing until we get the canvass from you.

Very truly yours.

hessrs, Brewer & Jensen,

33, Chancory Lane,

London, W. C. England.

Door Sirs;-

Referring to your notice as to Patent4, 276 of 1880, "

I begate inform you that I do not propose paying the fee, and the Fatent will therefore have to Tayse.

Vory trul/ /ours,

Jal

October Mich.

William F. Brewster, Esq

Southern Hotel,

St. Iours, No.

Door Sir:-

I have your favor of the 6th, inst:

I have ordered an Paul ", nyer to lansas they to make a ganvass of the town. It was in cynthiana, My, yesterday, and I presume will be in kansas City in the dourse of a few days. I also wared you last night asking you to send him introductions to the right parties in Kansas City. I trust that you have done this.

We have instructions from Major Raton with relation to the canvass of New Orleans. Immediately Mn Dyer is through at Kansas City, it would be well for him to no to New Orleans, but I would augment that you write Major Eaton on the subject. I have myself sent a memorandum down to Major Eaton about this matter.

Very truly yours,

Jak

October Lath.

C. H. Cooke, Eng.

Osborno liOuse.

Auburn, WY.

Doar Sir:-

I was away at the time you started for Auburn, and therefore had not an opportunity or speaking to you.

of your canvasses which show a great many mistakes. Apploton is a special case on which he has based his reasure. I have been over landota convass with a gostleman from that place, and he dies claims that it is very incorract, and I notice in several places that you could noticely the allege and your works of lights in many cases are very defective.

T write to marn you about this matter, and trust that the Adburn canvass will be a complete one.

Very truly yours,

SJ

. I. Carrison, Esq. Troas.

Edison Electric Illuminating Co. of Brockton,

Boston, Mass.

Dear Sir;-

We wired you last night requesting you to communicated with in C. N. docke, Osborne House, Auburn, whom we have sent there to canvass the town.

We are anxious that he should get from you the manns of local parties for him to call of with relation to the canvass, and therefore trust that you have dritten to him on this subject.

Very truly yours.

Jak

3

0. J. Smith, Esq.Prost.

Americal Press Association,

39 & 41 Park Place, City.

Doar Sir;-

Referring to your latter of the loth, inst., We Edison, who left town last night, requested me to inform you that he is so yery bus, that it is quite impossible for him to write the articles you refer to. He will be out of town the most of the 'ims between now and Asymmetr lat., but after that dute if you care to interview him, and so get at the data to write up articles on the Edhjot you refer to, he will be 'very glad to give you the necessary time for the purpose, whis? I main is for one of your representatives to get from in Edicoln 'Skidely his views and then write them up himself.

Vory truly yours.

/ S J y O S



Charles Batchelor, Esq.

Paris, Franco.

My Doar Batchelor:-

I have your momorandum as to case No.02.

I will look into the matter further and write you again in the course of a few days.

I heaten, however, to reply to your reserve on our meter.

We have been running since the 4th. July at Juspury, at
Shamakin for the last senth and at Brockton for the last thrue
weaks and down town since the early part of the year, and in all
these-places our meter has given very great satisfaction to the
consumers. At Sambury, where in all probability our customers
have four lights in their houses than in any other place, the
consumers in several instances history kept an exact record of the
lamp hours, and the bill has tallied so closely with what they
reckened it eight to be from calculating by their lamp hours,
that it has really surprised me, as the variation hus not been
more than two per cent in any case, and in a number of cases the
meter and lamp hours havebtallied within the smallest possible
fraction. We dispense now with the quarterly bettle, and use one

bottle as a check on the other, calculating the loss on the plate in each bottle and taking the mean.

I will got from Mr. Chimnock some copies of his mater accounts and sond them to you to substantiate what I say.

In fact I as so mary much pleased with our meters, that I would not for an instant think of using the recording meter, as the advantages of its boing automatic would in no wise compensate for the difference in correctness as compared with our present form of meter.

Vary traly yours, Tak

a: ...

Oatober 13t

Hosers. Alden & Sterne,

City.

Door Sirs:-

I enclose you herewith letter from Homer Horgan,

We are very anxious to let Graners; Park indeed. Do not you think it would be a good idea to put up a notice that the house is to let?

Yours truly

Jak

occober 13th,

C. E. Chinnock, Esq.

.... 257 Fearl' Street, City

My Doar Chinnock:-

We have a latter from Surope "kicking" against the use of our meter, and we have written saying that if a check is kept on the meter by keeping an exact account of the lamp hours the correctness of our meter would be established.

Wild you please write me a letter officially giving your experience with the meter and accompanying it with a few specimens of your meter records, which gives the name of the consumer, the loss on each placed and the amount of the account, alouds mantioning on what standing the calculations are made.

What I want to do is to "lay out" these Europeans who "kick" against our meter, and want us to adopt a recording meter which would never be such a sedecess as our present meter records.

Very truly yours,

.....

Thomas P. Conant, Esq.

woovers Mational Motol;

Shamokin, Penna

Door Sir:-

Your letter asking for a check for salary came to hand while I was in Williamsport.

I, have the plansure to analyse you harverth chark for a , boing the assumt of your the months of August and Corrector. (The Quare Jensal Uf Cor 122)

I shall leave Now York for Shambkin Sunday night, and shall hope to have the pleasure of seeing you Monday morning.

If you should happen to find a piace of stank not more than ordinarily tough, you might save me half of it, as leather flavored with the essence of boolstoak is containly indigestable, to say nothing about its being ungalatable.

Very truly yours

SJ

October 1.4th

.

W. S. Androws, Esq.

. Franklin House,

l'awronce, Hass.

Door Sir:-

I am in receipt of yours of the 11th, inst.

I cannot possibly order conant from Shamokin at prosent. Cannot you berrow from in Rich some of his man to help you and so push your work through railedly? I am anxious that Jawrence station should be started as early as possible, as we have quite a heavy parment dependent upon the current being put on the mains.

Yory truly yours.

S 3

- 3

F. J. Spraguo, Esq.

Hotal Ballmant,

Brock ton, Mass

Doar Sir:-

To beg to remaind you that unitarishin writing we have never received any detailed report as to the progress of the bininess in Speckton. We are frequently called upon by the Officers of the Electric light Company for information, and to are absolutely unable to give it in consequence of our not hearing from you will you please, for the future, report at least twice a week to this office, irrespective of whether En Eddson or the Friter should happen to be in any town where you may have charge of the electrical work. When we tell people that we are unable to give them information, they are inclined to think that we do not information, and our position is therefore a very askward one if you do not keep us posted.

Very truly yours,

Sy Insul

October 1.4th.

P. Ward Joonard, Esq.

care 7. J. Jonks, Esq. Manager,

Brockton, Mass.

Dear Sirt-

I have your letter of the 11th, inst., and enclose by you check for 355. as requested.

Then you were here I asked you to report to this office exactly the course your business takes in tweeton. You should send us at least twice a week a statement showing the number of meters installed, in whose house they are installed, on which stdy the of the circuit the lights are and the number of lights each consumers is wired for, also any other information of interest in relation to the moter business. I trust that we shall not have to ask for this main, as I can assure you at it were annoying not to have the information here, as we are frequently called upon to make the information and it places us in a very awkward position in not being able to tell people, who have a right to know, how our business is running.

Very tral / yours,

Sprane Palec

W. L. Garrison, Esq. Treas.

Edison Electric Illuminating Co. of Brockton,

Noston, Vass.

Doar Sir:-

I have your letter of the lith, inst.

The reason the bills have been unpaid in proceed is that it was impossible for us to deal with the until getting in the leaf is uproval of same. This approval came to hand durang my absence from town. I returned this morning and will pay them all up immediately they can be passed through our books, which will be I prosume either to-morrow of Henday.

Very truly yours

Jal J

October 12th

W. H. Douty, Esq.

Shanokin, Penna.

Doar Sir:-

I found your tologram here when I returned from Williamstort.

I shall be in Shamokin Monday morning, and Shall hope that things will be in shape by that time.

I have just get the first small delivery of the mest cubic. Will you plouse wire me in the morning the quantities and sizes required by Floyd of this material. If he wire calculates on simple wire, I will know how much double wire to ship.

ory truly yours

Sy

P. R. Upton, Esq.

East Newark, R. J.

Door Sir:-

Referring to your favor of the lath, inst., I have thought ever your projection as to English orders, and I as strong ly of the opinion that we should not give way to them of the question of prices, as if we do we will be compelled to take the same read all through, and they are acted desirable castessess that we need trouble ourselves should bidding very closely for their tride.

Your truly jours.

Jak

1883-10-15

October 15th. 3

W. S. Andrews, Esq.

Franklin Bodge.

Lawrenco, dass

Dear Sir:-

Referring to your letter of the 11th, inst. to we disson
he mays that he thinks that you can figure on what the Sammekin
people require for their Opera He we forward!. If no, will you
please not up a sketch of the regulator and sond it on, and we will
have bergmann estimate on it.

Very tral, yours,

8,J,

October listh.

Gardner C. Sims, Esq.

Frovidenco, R. I

My Boar Sims;-

The speed indicator which we use in the central station is made by T. R. Harding a Son, Tower Works, loods sample and but they have agents some where in Mosten. I do not, however, ince the greats address, and we do not appare to have any spare indicators on hand. I should fifth some of your Mosten Friends could probably assist you towards metaling one.

very truly yours,

81

October Lith/

W. S. Andrews, Esq.

FFranklin House,

Lawrence, Mass.

Doar Sir;-

Referring to your letter of the list, inst., to do Edison, as far as I understand there are three appear meters at Shamokin, whoreas our contract only calls for one, and my impression is that we shall have to stand the loss of the other two. One capare meter would have been sufficient. I presume, for them to get along with, although of course it is desirable to have two and much better to have three. My idea was to lot the matter run on until so had settled our contract, and then if they wanted more than one they could order it. I cannot find any record in my office of having ordered more than one ampere moter from Bergmann. ... Whon I compression to him that three were sent, he says I must blame you, as they were at your request. Chamberlin knows nothing about what ampere meters should go to one place or another. I know your inclination is to communicate with us in all matters bofore doing anything, but what I want to got at is, in this spocinl case, whether it is Bergmann's "bull" or your instructions, or some remarks of an Edison to Chamberlin, which caused three empere moters to go to Shamokin, which is a loss to as of about 340.

When he gets there :

Ogtobor 1Stb

W. S. Andrews, dsq.

Franklin Hoose.

Lauro neo.

Door Sir:-

Referring to your favor of the 11th, to Mr. Edison, we have talked the about over of the Lawrence central station had have come to the conclusion that the best thing to do is to give you Carte Flanche to let you make such arran counts as you see fit. Will you please do it on as occionidal a basic as possible.

I think Mr. Edison will be in brockton some time towards the ond of the week, probably about Wednesday or Thursday, and he will have a pressure indicator with him, which is just the "boss". When he gots there you want to go over and see it work. We propose taking out all the old pressure indicators and putting in these new ones.

Vory truly yours,

October lith

ou.

"Socretary",

Edison Electric light Co., Limited, London, E. C., England.

Door Sif:-

Referring to your Assistant Manager's letter of the And.
October, I beg to inform you that order No.388 will be shipped by
the Assyrian Monarch on the lith. The engine has been in Mew
York some days, but there is no stemmer sailing earlier. Your
order also for an #2 x 10 engine will be shipped at the mand.

time. I may mention that our engine builders have so many orders
whead, and wecourselves have to order quite a large stock of
engines in order to meet the demands against us in this country,
that it is very difficult to send you an engine off-hand. If
you are not prepared to carry a stock of engines you should order
them well in advance, as otherwise we will have great difficulty
in getting them for you by the time you require them.

Very truly yours,

Tak

October, Lith.

W. H. Dwelley, Esq. Treas.

Edison Electric Illuminating Co.

Door Sir:-

Referring to your favor of October 10th. to dajor Enton in relation to the installation of your plant at Fall Rivor, I would state that we are pushing everything in order to have the plant installed at the time stated, namely, the endoor developer. You must really leave it to us as to shether so shall commoned any particular part of the work. We do not done to send men to Pall . River to make a show there, and getcome part of our work through a month, before the other. This we cannot afford to do: Everything so far is going on very well, with the exception of the tubes, and I am inclined to think that your not writing to me guaranteeing the tubes, so as to enable us to order them, may cause us some dolay. So far we have had to make considerable sacrifices in order to got promises of deliveries of tubes at all. I fancy, however, that Mr. Rich Has been to Fall River since you wrote, and is preparing to start his portion of the work, which I can assure you is the quickest done, and, consequently, should be really the last commenced. If you will please have a little patsones and not think that we are doing nothing, simply because you

do not see a whole army of men in Fall River, I think you will find the thing will come out all right...

Very traly yours,

Zak

October lith. . . .

F. J. Sprague, Esq.

Hotel Belomont,

Brockton, hass.

Dear Sir:-

Your talegram of the lath, came daly to hand.

We have not a very high idea of Johnson's qualifications, and have been endowering to get a dan more suited to our work, but we have not at this grising been able to get she can think against, and until we do get one if is quite impossible to recall Johnson. Seantine we would like to the first real season further information as to the trouble with him you complain of.

Very truly yours,

Jak

October 15th.

John W. Lieb Jr. Esq.

via Manzoni, 12 A.

Hilano, Italia.

Door Sir:-

Referring to your favor of the 37th, September, I regret to say that I cannot send you the ringing you ask for unless I set an official order for same.

Tith relation to the valve metion assigned to the Araingles a Sims engine, which you say is proken, I can gave no explanation, except that the trouble-must have occurred after the engine left here, as before we shipped it it was thereughly tested.

Jak

detober löth.

W. A. Stern, Esq.

.830 North 5th. St., 'Fhile! Fa.

Briendi Stern:-

Your two postals of the lath, inst. just to hand.

We are having the library removed from an adjacan's house
to this office, and as soon as the books are in order I sill look.

up "Gordon's Electricity and magnetism" and send it to you.

I am sorry to near that you have been eight weeks in bod suffering from such an accumulation of troubles, but it is a great relief for me to know that such troubles are of a legitimatelinstead of an illegitimate nature.

Hoping that you will soon be well, believe mo.

3,1

P.S. Owing to my having to go out town, this letter will have to be signed by my assistant, as I dictated it on Sunday, and it will be written on Henday.

3

detuber lith.

Gardnor C. Sims, Esq.

Providence, R. I.

Doar Sir:-

I have your favor of the loth, inst.

I do not care to stand the expense of your sending a man
to start your engines in our stations. I think that you should
suilly us with an engine shich we can start ourselves we have,
as we have.

Very truly yours,

GJ, PS,

October lith.

P. J. Sprague, Esq.

Hotel Belment,

Brockton, Mas

Doar Sir!-

We have to maknowledge with thanks your voluminous letter of the 18th, inst.

At the moment we will only deal with one or two points.

I have received your telegrams asking as to receil.

Johnson, and this morning wired you to have him return to new York
at once. I told you, if you have the money, to give him \$50.,
and if you had not to draw on me at one day's sight for that amount
and to take Johnson's receipt for it. We are very much surprised
and attappreciated in this man.

In relation to pressure indicators there have been vast improvements made in these within the past few days, and the difficulty you have met with will be entirely everence when the new indicators are placed in service. Mr. Edison will good to Bruckton to-morrow or the next day and will have one of these with him.

At the moment I have no time to deal fully with your letter but will do so this evening or to-morrow.

very truly yours,

October 16th.

Thomas P. Comant, Esq.

Weavers National Hotel,

Shamokin, Ponna,

Doar Sir:-

I fancy that I have lost my bunch of keys in room 10,

Will you please enquire as to whether a bunch of keys were found in that room, as I am absolutely keyless.

Very truly yours,

39

October lith.

il Ward Loonard, Esq.

eare Edison Electric Illuminating Co.

Brod ton. Mass.

Doar Sir:-

or Sgrapue informs in that one 50 light motor complete and one 40 light motor were shipped to Borgmann & Co's on the 12th. from Brockton, and gays that it is your intention to write Mosars. Horrmann & Co. on the subject.

In relation to defective material, we particularly desire
that all your correspondence shall come to this office, inasmuch
as we order the material and there should be no communication
between the parties receiving it and the parties from whom we
order it, as we expect those who receive material to consider it.
as coming from us.

I trust that any complaints you have to make about this matter you will send to us at the carliest possible moment, and comble us to have the matter corrected.

Very truly yours,

Jak

October 16th.

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

· Lawrence, Hass.

Doar Sir:-

We have your letter of the 18th, limit, in reference to lemethening the buller room of the wall River station, and in reply we ben to say that if you will build a manhele door for eleming jurposes at the point X shown in the attached sketch, both bullers can be entered from flues. This arrangements should be effected for the first pair of bullers installed, and the small arrangement will be necessary for other installations in the fattere. You could also obviate the difficulty by having the doorn on the top of the floor, as shown on several prints, so that with building or buller.

We are soins to order forward at once all the material for Pall River, and trust that you have made the necessary arrangements for receiving and storing it until such times as it may be required to be used.

Very fruly yours,

プ

October 166

:3

Ball Engine Co.

Eran. Ponna.

Doar Sirs:-

We bog to acknowledge receipt of your favor of the 12th inst. in reference to your automatic cut-off enganes.

In reply we would say that it would be necessary for us to make a long test of an B 2 x 10 or one that size at our Works, 104 Goorde Street, Row York, before we could think of negetiating with you in relation to the use of your engines for electric light-

Vory truly yours.

Jale G

October 17th.

W. S. Andrews, Esq.

Franklin Fouse,

lawrenco, ass

Dear Sir:-

I have your letter of the 14th, inst., and in reply ber to state that Mr. Edison insists that the regulation of the 400 light machines must be taken ears of in the small bathod that we now take care of the spare 500 light machine. Now this is to be done I do not know, in Johnson subjected an arrangement of switches to be interposed in 160 line between the registrance boxes and the field and then you could plug in olther one of the small machines or both of them on one side or one on each side. You freing on this, and let us hear from you further about it, as it is hardly a matter which I have the ability to discuss in correspondence.

Rorgmann has been notting up a new regulator semething like the regulators used at the destruct station. My impression is that we will put this in our control stations in the place of the regulators already sent out.

The not know when you will get the new pressure indicators. Can you get along with the old form of indicators. If so, I can send these to you at any time. We intend to send out the new prossure indicators, which an Edison has been getting up, since you loft, and which has been working like a charm, but this will not be ready for some time, and of course the stations cannot be kept waiting in consequence thereor.

Taill let you know Scheenium the plum feeder switches and sufery catches. The first dozen had a backboard, in fact those sent to lawrence had a backboard originally, but they wage taken off the board at the request of an Sprague, who considered the board useless. I must say that I agree with you as to the advantage of having the backboard.

I have written to Soldan about what you asy as to dynanos. I do not knownexactly when you will got the 400 light machines, may be a week or two.

You do all with the matter until Comant is able to leave Sheeching I would must prefer that you should do this, as we have no isen to send you anyway, and I know you would like to have comant with you, so I would like you to got along until he can no to lawrence. He was all broke up at my telling himbar would have to stay a wook or two longer in Shamokin, when I was there the other day.

Vory truly yours,

29

October 17th, 1883.

A. A. Cowles, Esq. Secty.

19 Cliff Street, City.

Boar Sir:-

I have recently received a number of complaints from the maching works about errors in the delivery of wire and copper rods. Such errors necessitate the return of the deterial, and, consequently, a very great delay to us at the waching works.

I write to draw your attention to the matter, thinking that it is probable that you may not be aware of syste.

an Soldan, our Superintendent, told me this morning that he would call to see you in the course of the day about it.

Vory truly jours.

· October 17th.

laul D. Dyer, Esq.

Fansas City. He

Dear Sir:-

To have your letter of the 11th, inst, dated from Cynthiana, the cunvass of which place arrived here on the 13th, inst.

I wired you on the lith, to go to Maysville and make a canyage of that toom after you had familiated Mansas City. Mr. Stuart is your anxious to have Maysville canyased without dolay, and I therefore wish you would iso all possible despatch in getting through the term you are now in.

Very truly yours,

1

A. Stuart, Esq. Secty. Cincinnati, Chic.

Doar Sir:-

. We are this morning in receipt of your favor of the lith, inst., and in reply beg to say that we have instructed Mr. Dyer to return to Maysville and make a sanvass of that town after he has finished Kansas City.

We note with much sitisfaction your statements as to the agganization of the Yiffin Company and the prospects of closing a -contract with them.

Under separate cover we send you the estimate for a 1000 light plant for Tiffin with street installation to cover 1709 lights. In our telegrum of the 12th, we explained to you that the building which we proposed creeting was to be of brick with stone foundation, and the cost of same \$3,000. If you prefer a frame building, we will erect one suitable for the purpose for \$1,400., but inasmuch as there is not a very great difference between the price of the frame building and the brick building, we beg to suggest the advisability of eracting the latter.

In relation to temporary fixtures, if you do not wish us to supply these you can cut the amount (\$194,08) out of our esti-, and make arrangement to put in permanent fixtures from the

start

In relation to other estimates, we hope to send you before the end of the week Middletown and Pique, each a 300 light plant, as you requested.

Trusting that dir Tiffin estimate will be found satisfactory, we remain,

Very truly yours,

P.S. We presume you inderstand that our bid for the street installation only holds good providing the necessary grants and concessions for the proction of our poles and running of our wires, in accordance with the red lines shown on the map sent here it and warfog Exhibit "A", are obtained by the local company. Should they fail to obtain any of these and thereby put us to any additional expense, from having to change the course of the pole line system, it is understood and agrood that they shall reimbured us for the expense.

October 17th.

P. B. Shaw, Asq

Williamsport, Fenn'.

Your latter of the lath, containing resolution passed by the Selletonic company, and letter from an Harris, secretary of the same company, and your telegram of this morning have all been received, and in reply as be; to say that so will have a convessor at Hamleton to-morrow of the next day, and after he finishes up there he can so to St.Cafmel.

If we close a contract with the Manleton company before
the let November, we will undertake to put the plant in and have it
runniam before Christade. A canvass of the sown should occupy
about four days, and a week after its receipt in this office we
could have the maps propered and the ostimate turned out.
Just here we wish to remit, that we are feelly surprised that the
broath of the Wellefonte Company has taken away by our estimate.
For a plant of that size, (\$1,000.) we considered the estimate
very fair. We will, however, comply with their request and sand
thom an autimate for a 300 light plant at the eurliest possible

Very truly yours.

.... S.J

October 17th.

Custav Soldan, Esq. Supt. .

104 Coorel Street, City.

Bear Sir:-

"Concerning the "H" dynamo, the small square headed belts used in clamping the connections on the head board should be stouter.

I found two of thee heady bent here, and I broke one at Shessekin. Then I was in new York I provided myself with two spare ones, or I should have been obliged to have had some made here. The two stop pins in groove of rocking are are useless and in the way, I have had thus chiracteristics.

I thought you might like to hive the above remarks from the Andrews, as he is probably one of the best pasted men we have at the present time.

Yours truly,

SA

Electric Pen

Octuber 17th

John F. Rygers, Esq.

idd India Square,

Boston, wass.

Doar Sir:-

We have your favor of the lith, inst., and very much regret the unavoidable delay which has taken place in supplying you with the duplication ink. Your having some made up for you and will sold it to you as soon as it is ready, which will be in a day or two.

Vory truly yours,

Jaly

October 17th.

John Ott. Esq.

393 Avenue B, City

Door Sirie

I seeless you herewith receipt for making the duplicating ink. Floase make up about a gallon of this and advise us when it is read/.

I also attach two statements, showing the amount of cabit (No.10) which has been delivered at 55% Avenue B for de. One shipment was made on detuber 11th, and the other was made yesterday. We shall be glad to know if you have received the shipment of detuber 11th, and if you are having the ware weighted, as it comes in, and stored in the laboratory.

In relation to mercury, 'we sent a box over to you yesterday which we presume contains the missing article. Ploase fill all our orders for sulphate of zine and moreury as quickly as

ery trul/ yours

Enclosure.c.

October lath.

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3

F. J. Sprague, Keq.

jotel Helmont,

bruck ton, ass.

Boar Ster-

I forward you per early mult chart of aidellotwen, Ohio, with mains and feeders marked off as per determination herewith, which please check and component if necessary, and return as early as possible.

very truly yours

81

October 18th.

Gardner C. Sins, Esq.

Providence, R. I.

Friend Sims:-

blackgoarding the Edison business. It all comes out of some blackgoarding the Edison business. It all comes out of some decilings I had with him with relation to the sarvis-getting at lawrence. He told so that we clarke had undertaken to pay for the sotting, if we would order it jut in. I consequently ordered it put in, is it would east us nothing, and or clarke street that he put in, is it would east us nothing, and or clarke street that he fail not undertaken to do any such thing, so that the larvis moting was not put in. This irritated wright, and to relieve himself the talkes in a mannervte Rich which is hardly becoming to the copy sontative of engage builders who have such a champion in six Edison. I should not have written to you about this matter, the but & heard of he wightly's remarks though another source. He is deputions a very good fellow, but he has not the ability to be discreed in what he says, and I should advise you to nive him a

.I was very sorry to massaurs, Armington, as I would like

to have seen her.

I have cubled home to my mother asking hereto wire Mrs.

Armington at Cucensland inviting her to stay at our house in

Jondon during her visit to that City. Pheuse tell Alice this, as

I told her I would send such a cable.

Yory truly yours,



October luth.

T. Adams, Esq.

City,

Dear Sir:-

Agreembly rith jour request, I be: to mins you below an estimate of the probable running expenses in connection with the electric light installation which it is proposed to make at the gazarre glats:-

DATIY.

Electrician and meterman 3 3.5	0
One ongineer, seven months	
Two engineers, five months	0
One fireman. 2.0	ō.
Coal 4 lbs. H.P. per hour at 34. being	
3 tons year round 9.0	0
Oil, waste	
Water 1.96	5
Lamps at \$1. each	
Insurance 1,50	
Depreciation (long)	
Repairs	
Stationory30	į.
Manuand 70 to	

Above based on a daily average of three hours use of the 4000 lamps during the year.

Taking into calculation that farties be absent two months in the year and that only 4000 out of 11000 lights is figured on, it is believed this average is correct.

Adding five for cent inferest on say \$100,000.; which for \$35 days is \$13.50 per day, the daily running extenses will be \$70.00, or \$25,670.50 yearly.

4000 burners burning oddal to five cubic feet of coal name would be 20 hs per hour of 00 hs per day of three hours average the running expenses being 370,000 dully, would bring the cost of each is equivalent to 31,1b. Enying cas at \$2,25, would make a loss of \$34,10 a day to the occupants of the Flats.

Interest at five per cent being already allowed, this

2014.10 would pay thenty three per cent more on the 3100,000, or alterather twenty sight per cent on the investment, and the investors shall obtain a vastly superior article.

fery truly yours,

P.S. With lot apartments, this would be 3770. For each, as investment and light bills would be about \$16.75 jer month.

October 18th.

T. Agams, Esq.

cit/

Dear Sir:-

Referring to your request for an estimate for the installation of an electric light flust and other electrical work at
the eight Mayarro wlats, 36th. Street & Seventh Avenue, I beg to
state that we will, with the permission of the Kalson Bloetric
lliminating Congray of New York, install for the gum of eighty
nine thousand eight hundred and fifty dellars (Sun, 830.) an electric light plant which till surgly at one time 4000 lights, naving
ton candles aspherical illumination, which is about equal to five
foot of coal gas as burned in practice. The plant can be forced
on gensions to run 4300 lights. The Balson Bloetric Illumination
company will guarantee that the life of the lamps will average
one hours, when they are run at their rated power of ten candles
each, and will also guarantee that ten lamps can be obtained for
every indicated horse power.

In addition to the above, the amount named (Suc, 650.) includes the wiring of all the Plats for about 11000 lights, the wiring for telephones, electric bells and district telegraph calls to a central station in the Plats, the restoring of the platering where it is necessary to cut helps in the walls and collings, The

furnishing of emitch-boards and the fitting up of a contral station except the telephones, which for mill have to obtain from the Telephone Company, and also the furnishing and erection of speaking tubes throughout the Flats.

The terms of payment that I should require, if I contract is entered into, are as follows:-

Twenty five per contum of the amount of the contract on the signier of same, tranty five per contum when the engines, boilers and dynamous are in their place, twenty five per contum when the electric light installation is ready to supply light and twenty five per contum thirty days thereafter.

Vor/ truly /ours,

Day

October 15th.

Dr. O. A. Mosos,

153 East 77th. Street, City. Bear Sir:-

I should like to see for sometime Saturda/ morning, if convenient to yourself, with relation to your are lamp shipped to Wr. Matchelor.

I have a communication from him in which he requests no to see you on the matter.

Very truly yours,

٠,

Octuber lesh

Paul o. Dyer. Eng.

Motropulitan Notel

lansas City, so.

Boar Sir:-

Your two interesting epistles of the 14th. Inst. were duly received, and I certainly think that you deserve a putty model for your bravery, and have no doubt but what your exploits will find a place in your Country's history. To face the braves of the mast most certainly requires a man of your sirrit, and it is for that reason that you were chosen for the emercian arrisky enterprise which you now have in hand. All I hope is that if the worst should occur that you will leave such directions as will enable us to dispose quielly of any balance of account that may we still be due to you in this office.

When you got through at lansas City return from the western wilds to the civilized and fertile regions of Kentucky and finish your canyage at Mayeville."

Meantime, trust in God and Loop your jorder dry, and remember that the man who gots his hand in his coattail first has the best chance.

Very truly jours,

I Insuir

Androws, Esq.

Franklin Fouse.

Lawrenco.

Doar Siri-

T have your favor of the lith. inst.

Ur. Edison thinks that what you propose for Shamokin would do very well.

Will you please let me know as early as possible when you think you will be able to start at lawrence?

Have you the ampore meters and the feeder indicators

Sauf, Gusul

J. C. Tomlinson, Esq.

City!

Friend Tomlinson:-

I enclose you herewith a letter from coorne H. Mackellar with relation to the claim of Charles E. Rocap.

We owe charles 2. Weesp about \$1,400., and which we proposed paying him if he had not taken this means of bringing it to our notice. What he refers to as a compromise of account never took place at all. Now if we were to let Charles 2. Rocap sue, it would take hims cortain time to win his suit and would also cost him money in addition. What I went to get at is about what It would cost him, and also how long it would take, under the most favorable circumstances, to gain his suit. Then I propose making a sottlement with Mackellar or having you do so for the amount of \$1,400., less what it would cost 2r. Rocap to sue us, and I will extend the payments over the same period as it would take him to win his suit, in fact I propose getting oven the the young gentleman. What he claims is an amount which Mr. Edison made him a present of. If you are anywhere neaf Mackellar's office to-morrow you might call and see him and show a little fight, and state that

1883-10-19

1

the letter has come into your hands in the absence of Mr. Edison and his grivate Secretary.

Very truly yours,

October loth.

. .

7. J. Jonks, Esq. manager,

Edison Electric Illuminating Co.

Brockton, Mass.

Dear Siri-

. I shall be glad to hear from you as to when you will be prepared to take ever the station and run it independent of any assistance from my poople.

Very truly yours,

October 19th.

3

A. E. Beach, Esq.

dol Broadway, City

Priend Beach:-

will you proceed with the publication of the article on "storage battery". One alteration, however, should be made on the seventh line of the seventh rage of manuscript, change the figures ly to 37, as they ought to road 37 instead of 19.

Can you manage to publish the article in your next issue, as we should like to copy it from your paper into the next bull-letin to be issued by the Rdison Rectric light Company, but or course we cannot do so until after your publication of the article has taken place?

Very truly yours,

P.a.E.
J.

October 15th.

H. Jard Toonard, Esq.

care Edison Electric Illuminating Co.

Coar Sir:-

Your letter of the 13th, came duly to hand.

The report you sent me is exactly what I want.

fith reference to carrying three wires into a house, I thin; it is necessary in small plants to divide the lights partly on to the "A" and partly on to the "P" side.

With reference to your complaint that it is impossible
to see how many lights are on one side and how many are on the
other, the variation in the empere meter every evening ought to
show you what you want in this connection.

very truly yours,

Jae

October 19th.

Charles tatchelor, Esq.

Faris, France.

by Doar Matcholor:-

Referring to your favor of the 4th. inst.,
the reason that we charge so much for our 300 light machine is
that we have so few orders that it is impossible for us to sell
changer: In addition to the mark cost of the machine, we have to
stand all the heavy experimental expenses at the Sachine Works, as
owing to troubles I have had with the Light Company I decided I
would not put in any payments to them for this kind of work.

Very truly yours,

Jaz

October luth.

3

N. W. Pratt, Esq.

care Pabeock & Wilcox Co.

30 Cortlandt Stroot, City.

Coar Sirt-

Sr. William Burrows, Freight broker, of 4s Broadway, called on me this morning seliciting our freight, and montioned your name as a reference.

We have a very great deal of freight, and in order to get good rates and proper attention, I have for semetime been thinking of the advisability of putting it into the hands of a broker.

will you please advise me what you know of Mn Burrows, and what your Company pay him for any business he may transact in the business above referred to, and by so doing you will very greatly oblige,

Yours very truly,

V.

Otto A. Hoses, Esq.

City.

Doar Sir:-

I have received from Mr. Ratchelor a lotter dated Octobor 5th, in which the following paragraph occurs:-

"Now about Moses lamps, I have written Moses twice but get no answer. It was understood by Mayarre and myself and Moses that they should send no 0 lamps to Antwerp and the models to France to manufacture, on this I teld Bermann that they would sond me 0 lamps. Now the fact is I have received here 0 lamps in Peris, and I don't how whether Moses wants has patents protected, as I amnot get a word from him. In the meantime there are pouple erying for are lamps. Will you please tell goods about this and if I dont get any answer from him, I shall simply put them up here and he must look after his patent interests himself. Of course there is no question about the price, but the people here have paid for these lamps, and feel hurt because I wont lot them put them out to the public."

Will you please let me have your answer to same at your

1883-10-20

early convonionce, so that I can roply to En Batchelor's letter.

Very truly yours,

58

ctuber 20th o

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We have your letter of the lith, inst, and your telegram of the section of the section we sent you.

In reply we would say that the long upright from door can be put in party wall with safety by placing a tight weeden door outside of it. I attach a sictch and explanation which I trust will make the matter clear, and convey to you the way in which we understand the matter and our solution of the difficulty, which latter we would prefer adopting instead of londhening the beiler roce, and we trust you will give it your consideration and avoid making the extension referred to.

In reference to grate bars for the Brockton regions, or have to-day sent to an Sprague a bill of lading, and they went forward on the luth, inst. We have an invoice from Bosars.

Babeech & Walcox charging us with these bars, and as the cost is

Sus, we shall be glad to know, if, in your epinion, we should juy the amount. We think we understood you to say that there was spine defect in the bars supplied with the beller, and that these

had to be sent to reglace them. desire to refute the charge.

Yory tral; jours, Zuk

3

C. H. Cooka, Esq.

Clobe Notel,

Syracuse, N.Y.

Doar Sir:-

We have received four latters of the 17th. inst., torether with map and canvass of Auburn. When we are through with the former we will return it to in D. M. Osborne.

We wired you to-day to canvass Endson and Loughkeepsie on your way to Mew York.

In reference to counting the number of lights in each store once on Saturday night in order to get the difference in the amount of consumption or that evening from the balance of the week, we consider that your canvass should embody this information, and shall be glad if you will always cond it to us in places where there is such a difference as you mention.

Yory trul; yours,

2ak

0ctober 22nd, 1883.

Gustav Seldan, Esq. Supt.

Edison Machine Works,

104 Goorck Street, City.

My Doar Sir:-

I find that your system of charging everything up to stock and themscharging it out ugain to various orders on which the machines are being stated one not work at all well so far as my office, is concerned. We are having endless trouble is trying to decipher the alloged memorandumof material used, which monorandum are propered by he bodge. If the system, which I inaugurated on your suggestion, is persisted in it will result in an extra expense of about \$50. a week so far as my clorical force here is concerned, and such an expenditure is entirely out of the guestion. The petter of the two, and I write to inform you of this, as when I got back to town the endoof this wook I wish to arrange with you to return to the old method of steel keeping.

Furthermore, when a few days back Mr. Edison enquired of me the mothed new purceled as to this matter, I informed him that we were dependent for the charging of our material entirely to memorangum prejared by Mr. Bodge, and Mr. Edison politicly informed me that enger such circumstances he would not consider my books worth a damned. As he has absolutely no confidence whatever in any statements proposed by Er Dodge. No gives as his reason for this, that Mr. Dodge made so many mistakes while engaged in the marking department of the Edison Electric light Compan, and all of which mintakes were of such a character that it would be impossible for him[Mr. Edison] to have any confidence whatever in the work of any one capable of XMXXXXXIII such mistakes as I refer to.

Yory truly yours.

C. F. Bruckett, Esq

Frinceton College,

Franceton, N. J.

Deenear hr. bruckett:-

I beg to acknowledge with thanks your letter of the 18th. inst., which we once before received without signature.

I should turn great plausure in going to Frinceton to see your dynamemeter in action, but unfortunately my present press of business prevents my leaving New York. I have asled Mr Clarke, the angineer of the Edison Electric light Company, to go to "Frinceton and examine the instrument.

Very truly yours

Jaky

October 24th. 184 3

Gustav Soldan, Esq. Supt.

104 Goorek Street, Gity.

Doar Sir:- -

In relation to the flexible cable used on the "is" dynamos, we consider that this should be more thoroughly ensulated. The resent inculation is liable to wear off and cross the poles on hase, and we shall be glad if you will give this matter your consideration.

Yoursttruly,

2 ahry

Cossrs, Lorgsonn & Co.

203 Avenue t, tity,

Doar Sirs:-

We are informed that you are sending fixtures to brockton wired with white wire without any tape. This will cause
very serious trouble, as the covering absorbs moisture and causes
a decided load, and since this defect has been regarded by everytap who has had any experience with the wire, we consider it very
bad pulley on your fart to supply such material, but fool sailsfied that when we call your attention to the matter you will have
it adjusted.

Very truly yours,

3

W. J. Jonks, Esq. Surger,

Edison Electric llluminating Co.

Prock ton, Rass.

Dear Sir:-

Roplying to your favor or the 17th. inst. to an Edison,

soon as he can leave sew York.

but we expect to see him out again to day or to morrow.



F. J. Sprayue, Esq.

Hotel Belmont.

Brockton, Pass

Dear Sir:-

In relation to safety entenes, we her to say that the white plurs are all right. Forgmann sont a let of had plugs to brock ton semetime are, and in our opinion those each to be returned. If you will hant these up and sont back again weewill have them replaced by new ones.

Taky

P. B. Shew, Esc.

Williamsport, Jenna.

Donr Sir:-

We beg to return berewith letter from Mr Schwenk in reference to ft. Carmel received with your favor of the 20th. inst.

The are having a converse made of this place with all posnible despatch. Our converger is at the moment in Hazloton, but will in a day or two po to Mt. Carnel and send us the necessary data to got up plans and estimates.

In regard to the people at that point having secured the ground for a central station, we consider it rather a mistake to be too premature about a matter of that kind, as the location of a lot may make a considerable difference in the amount of our estimate.

In regard to my going to Mt. Carmel to etake off the building or for other jurposes, at the moment it is impossible for he to loave New York, and in any event I hardly think that the laying out of the building is such a serious undertaking as to require my personal attention.

We will rush this matter through just as quickly as possible, and write you again when we have something definite in connection with the estimate to submit.

Very truly Years,

Enclosure, D.

F. B. Shaw, Eso.

Williamsport, Penna,

bear Sir:-

We beg to emilion a letter from Dr N. C. Sticker the Chief Purgess of the town of Milton, Pa., in which he enquiries about the cost of the electric light. As it is in your torcitory [2013] we presume attend to it.

Very truly yours.

Taky

Enclosure, H.

M. F. Moore, Esq.

City.

Door Sir:-

In regard to Sr Galley, I shall be glad to do what I can to got him a situation.

I think the German Company asked for a meterman, and it would be a good idea for Oakley to go to corganan's and George Street and Jearn all about making motors. We would also have him coached in the interests of the commercial part of the business, and when he has completed his education we can then send him to replin.

very truly yours.

Jak,

Cetober 24th

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sir:-

We beg to emplose you herewith duplicate bills of lading tegether with shipting list of the Fall River beilers which went forward on the 22nd, inst.

with relation to fired-rick, we would like to know if you use any firebrick lining in your stack foundations? You will notice that in all of our estimates we include 14? of brick stack with this description of lining, but if in practice this arrangement is not observed and if you do not consider it necessary would like to know about it in order that we may in future leave it out. Afthe leaturate

Very truly yours,

Zae,

W. D. Rich, Esq.

care Edison Flectric Illuminating Co.

Fall River, Bass.

Doar Sir:-

I am in receipt of a lotter from he Spranue at brockton, who mays that they had make the loth and to account of the exhausts from the dynamo everflow pans leading into the empire exhausts. The drap pape races after leaving the characteristic and a second or all the exhaust and incommentation of the exhaust and incommentation of the exhaust and incommentation of the second entering this is measured forced into the everflow pans on the dynamon and large quantities of rator are threshoot from the exhaust, after being larted not less than there for the she at a fraid that some day the consequence will be very scrious. The drip should fall instead of rashed, so that the exter ample run off, and I wish you would limit now the master your machinists attention.

Very truly yours,

Ball Engine Co

Eric, lonna.

Dear Sirs;-

toplying to your favor of the 17th, inst. in relation to our making a trial of one of your empines, we bot to say that we should be also to make a test of a b 2 x 12 signing, which would require as inch pulley. It would be accessary for us to long this engine one month, and if you are agreeable to bear the exponsed in connection with the text, freight so, we will be also to make the trial.

Voty truly yours;

Jalas

John Campboll, Esq.

lock box 637.

Fittsburgh, Fenne

Doar Sir'-

I have your lotter of the leth, inst., and in refly regret to state that there is no position here which I can error you at the freeent time.

I shall tool your masso torono me and shall be read to do anything for you that I can in my our business, but outside or that I roar my influence with in correct would not attain the end you desire, and Ausmally Speeks better the Communicating with him for this object. Very truly yours,

Taky

Octobor 34th.

J. S. Andrews, Esq.

Franklin louse,

lawrence, Mass.

Dear Sir:-

would say that we have referred that fortion which relates to the sarety easeh thush muta to the proper parties for their attention, and have written on Soldan in regard to the flexible cable on any dynamos being more thoroughly insulated.

It is not our intention to send a lightning arrester for lawrence, as the system is underground and does not require it.

The motor scales are quite large enough to weigh 100 ligh

Very truly yours,

Jaky

William Purroughs, Esq.

40 Broadway, City.

Door Sir:-

Would you kindly call at this office any time you are passing and can find it convenient to step in, as 7 want to see you about placing our froight in your hands.

· Very truly yours

Jaky

Very truly yours.

October 34th.

3

7. S. Andrews, Esq.

Pranklin Pouse,

lawronce, wass

Door Sir:-

We have your letter of the 16th, inst, in relation to the connecting up of the fields of the 40c and 80c light dynamos together, and in reply her to say that we will have these boxes made so that they will so together.

In regard to having feeder switch and safety catch relder in one piece, I do not think this would always be found to work well and should advice keeping them separate.

Very truly yours,

Jaly

Getober Zith.

George W. Wilbur, Esq.

lost Office.

ht. Garmel. Fo

Doar Sar:-

We have your letter of the flat, inst., and in reply would say that your canvass books are not quite completed, but we have to be able to send them to you in a day or two. We ordered show to be made with 150 pages and also instructed the printer to leave more recently against a ma "sature of business."

The kt. carmed poulde brovery anxious to have an estimate for an installation at that blace, and we wish you to get the carries in the errice here at the carliest possible moment.

very truly yours,

William Schwonk, Esq.

Mt. Carmel, Fenna,

Dear Sir:-

to say that the curvass of his darmed will arrive in this office to say that the curvass of his darmed will arrive in this office in a day or two. The maps will then be put in shape and the estimate made and forwarded to in Shaw in a very short time.

Untill we know the size of the limit required, it is impossible for us to make any comments is to the engines or other material that

ory truly yours,

3

najor s. b. sator

City

Dear Sir:-

Referring to the attached we ben to say that there was no mistake in the plans of the Pall River building. We had this building so arranged that it would secundate the extra boilers necessary to be supplied when the time case for increasing the capacity of the plant, but this we arranged in such a manner that to clean them out it was necessary to entay them from the top "which is a yery common thing to do. The Pall River people thought that they would prefer to have them so arranged that access could be acquired from the sides, and as it was merely a question of obliging these gentlement decided to yield to their views and consequently gave instructions to have the building lengthened six foot, which has been done.

Very truly yours,

Zar

fortland

October 28th.

3

Kossrs, Harris & Robinson,

Room 2, Trust Go's Fullding, Hartford, Conn.

"Doar Sirs:-

We here to onclose you herewith estimates for the installation of Edison Electric Hight Central Station plants at Hartford and Southington, conn.

The former is for # 3200 lamps capacity with street installation for 4452 lights and amounting to \$72,653,254 and the latter for a plant of 950 lamps capacity with street installation for 970 lights and amounting to \$20,030.40

Our bid for the stroot installation in the Southing estimate is Sax based upon the same conditions as not forth in our letter to you under date of the 22nd. inst. You will notice that the cost per lamp in this estimate is Sal.71, which is 37.44 less for lamp than the doo light plant, and further it only costs 33,142.71 to increase the capacity of this plant from doo lights to 630 lights, which is almost three quarters larger. In view of these facts we would strongly advise the adoption of the 530 light estimate as being the end more satisfactory in all respects.

In relation to the Martford estimate, this is based upon the assumption that the control station will be placed upon

the \$10,000. let, the size of which is du x 40 and situated North of Allyn Street between Ann & Trumbüll Street. We explained to your Mr. Marris, when he was in New York, that all our plans for Marrison and been getten out upon the assumption that the let we work to use was to be 30 x 40, and that if the 60 x 40 let wis admittated it would necessitate our cutting off a portion of the building which would admit of the plant being increased to 4600 lights only, unless it were possible to get more land when required at the back, so that the building might be extended. The cost per lamp of this estimate is 322,70 which, without taking into consideration the very lange number of lights covered by our proposed district, namely, 4493, is we consider a low bid.

that we enclose statement of the daily running expenses and probable profits on a capitalization of \$30,000. For a 400 light plant at Southington. Were you to install the USO light plant, the increase in the daily running expenses would be so small as to hardly be visible, while the per cent for dividend on the capital invested, which latter need het exceed \$30,000, would of course be much larger than that shown on the enclosed statement.

[&]quot;In the chelosed estimates together with a plan of the arrangement

of the Southington station.

Yory truly yours,

Enclosure.

October 26th.

. .

.. v. sprague, asq.

Hotol Bolmont,

Brockton, Mass

Dear Sir:

I onclose you herewith lotter from Un Batchelor of Faris in reference to the possibility of working more than two amperes per millimetre on the underground conductors &c.

Please give me full replies to all of Mr. Batchelor's questions, in order that I may transmit them to him, and also return his letter with your monographies.

Very truly yours,

Jai

Enclosure, A.

Frank H. He. Commick, Esq. Prest.

Edison Electric Illuminating Co. of Sunbury,

Williamsport, Ponna.

Doar Sir:-

We are in regent of your favor of the 3rd, inst., and in refly ber to say that we are not in the least surprised to hear of the number of broken laws in connection with your system at Suntage.

who have received information from our areat, in commit, whom we sent to inspect your plant and ascertain the cause of such breakare, and we find that you have been running these large not at ten candle power as they are intended to be run but much nearer twenty. If this course is pursued you cannot but expect to have a very large per cent of breakare. The large we sent you were some of these made up a short time since at the factory and the best that we have yet produced.

When Dr. Det-rlog was here in New York he visited this office, and during the course of conversation he looked at our lamps and asked the candle power, remarking at the same time that they were not as bright as the light you were supplying at Sunbury. Those lamps of ours were giving at least eighteen candles, so it is therefore quite plain to us what the cause has been to result in

2

such a large breakage of lamps as you report.

car agent, who was in Sunbury a few days ego, advises us that Hn Harr gave positive instructions to the engineer in charge of the Sunbury station to run the dynamos to their fullest capactly. He (our agent) explained to the engineer the disadvantages attendant upon such a proceeding, and regulated the lights.

of light equal to ten cambles for each last installed, you sill rind that your broukage sill decrease very rapidly. It is much cheaper if customers want more light from single last to supply them with an article designed for a more extensive illumination, but to try and get twenty cambles from an article which is only intended to supply half that number is fatal to the long life of the last.

Trusting that in future you will regulate the light

Vory traly yours,

Jaer

3

chomas P. Conant, Esq.

care Edison Electric Illuminating Go.

Shomekin, Penna.

Door Sart-

This will introduce to you an 1. C. Walker, whom I am somding to Shamolin to obtain whatever information you can give him in reference to our system of house siring or anything olse he may desire to how. On haller will bring with him samples of the now were which we are going to use, and he has such instructions from no that he understands the application of it, and I shall be glod if you will give him all facilities possible to enable him to obtain whatever information he requires.

very truly yours

Jac

W. F. Bouty, Esq. Frest.

Edison Electric Illuminating Co.

Shamekin, Forma,

"Door Sir;-

We have your letter of the 23rd, inst. complaining that the cystem at Shamelin has been working badly.

We received a letter from an commant explanation the cause, and it expenses that a number of trees have been retting mixed up with the wires and causing croses on the line. This or course is a matter which can be very easily resedied by having the trees of the received or transed, so as not to interfere with our system.

on or also advised by kr. Conent that the newernor on one of the enrines was working badly, and so wired him to have it tuben off and the flange brightened up, shieh will relieve all trouble.

We do not see that anything has been row which would necessitate our sending unytedy to show with the parties there at present are fully competent to deal with the difficulties which have arisen.

Vory truly yours.

Tale

October 28th.

J. F. Rugers, Kage.

63 India Square,

oston, Hass.

Door Sire:-

We have your latter of the 25th, inst., and exect application for the delay which has talon place in supplying you with the duplicating inl. It is an article which we have not dealt in for such a long time that the recipe became explaid and had to be hunted a, which took agest time.

Ye have, however, much pleasure is stating that we be forwarded to your address by express yesterday one bettle of this ink. When you require any more than in we will be able to supply it fore broughly.

Very truly yours

Dar

October Joth.

- 13

E. H. lord, Esq. Treas.

Edicon Electric Illuminating Co.

Dear 17:-

We be to acknowledge receipt of your favor of the high, inst. in reference to a metersam, and in reply would may be that we very much regret the delay which has taken place in furnishing you with much a person, but as this hind of a man is not fitted up anywhere and we have had considerable trouble is finding one. We have pleasure in stating that we have, however, succeeded in securing the services of a first class motorman who has had charge of the weedle plant for some time past, and will report for duty at lawrence me later than the last finst, and before that if at all possible.

Yory truly yours,

Jak

- October 29th

F. . Jpton, Esq.

East Nowark, W.J.

Doar Sir:-

In relation to broken lamps received at avocation, do

you not think it shall be a good idea to pack a half a dozen lamps
and handle them roughly in the laboratory, that is experiment on
different manners of racking

Yours truly,

Dak J

October Buth.

Pilamen

W. J. Garrison, Esq.

137 Foderal Street,

Boston, Mass.

Dear SECURITISON:-

DOG! BENEETISON:-

In reply to your latter of the and inst.,

"asling about the Dart Sleerie Railway, I should advise you to real

"your friend not to put a cent into it. It is simply a "catch".

Yory truly yours.

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October 20th. 3

George H. Hopkins, Esq.

137 Temple Court, City,

Dear Mr. Hopkins:-

Many thanks formyour letter of the 26th, inst.

the pair of the American Institute. I shall have such pleasure

Very truly yours, .

20kg

October 20th, 1883

Gustav Soldan, Esq. Supt.

104 Goerck Stroot, City.

Dear Sir:-

There is a paragraph in Defect Report No.54 to the effect that the wire bands binding the armatures got loose and cone off on the machine which we installed at Harrison, Havemover & Co. shortly after starting. These armatures should have wire bound around them as in the central station machines. We never had trouble after we did this, and if you want any further explanation Milly Wright can give it to you.

Yours truly,

Jak.

October 20th.

A. Stuart, Esq. Socty.

Cincinnati, Onio.

Doar Sir:-

In order to complete our map of Springfield, Ohio, it is necessary that we should have a correct chart of that town. We have written to the City Engineer twice asking him to much a tracing of his map, but without result other than that our letters have remained unanawered. Solid you in any possible way obtain what we require, as it is absolutely necessary that we should have it forcer we can complete our work, and we shall be glad to hear from you at the earliest possible moment.

Very truly yours.

S Jy

October 29th.

W. H. Douty, Esq.

Shomokin, Penna.

Doar Sir:-

We beg to acknowledge with thanks the receipt of your favor of the 23th, inst. enclosing Mr. John Mullen's check on theb Shamekin Banking Company for \$1,000, on account,

In relation to putting your plant in proper shape, we have already written you on the subject, and trusting that you are meeting with no further difficulties, we begin to remain,

Very truly yours,

Jae

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William O. He. Dowell, Esq.

130 Jiberty Street, City

Doar Sir:-

I boy to acknowledge receipt of your latter of the 27th.
inst., and in reply would say that there are so many calls made
upon my jurse and as I am not interested in the Edison lump
Pactory, except as a stockholder, I do not feel that I can comply
with your request.

T return the list herewith, and beg to remain,

Very truly yours,

Enclosure

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John F. Rogers, & Co.

62 India Square,

Boston, Pass.

Doar Sirs:

We are pleased to see that by your letter of the 27th.

In relation to an invoice, we cannot not a price upon what we have forwarded you, but will arrange with none stationer in liew fork for the manufacture of the article and will advise you as to where it can be precured in future.

Very truly yours,

Dak

3

E. S. Marsh, Esq.

23 East 23rd. Street, City.

Doar Sir:-

Referring to your favor of the 21th, inst., I beg to answer as follows:-

FIRST. The Phonograph is an invention of mine, but nothing has been done such it for the last few years, as my time has been so fully occurred with other matters that I can hardly say mether I shall be able to give attention to it further on.

SHOOM. Electricity is already supersodian and performing the present functions of cas and Steam, but her least it still take to determine anyonity of the business it is deficient to say.

THERE. I must refer you to the books for theories about the dature or electricity.

POINTH. my laboratory is practically closed at the present time, and there is nothing of any considerable interest to a student being done there.

Yor/ truly yours,

W. Froston Hix, Rsq.

336 West Main Street,

louisvillo, ly.

boar Siri-

of Greene and Alleysbetween Second and Third Streets, upon which is situated an old bring the streets, upon which is situated an old bring the streets at 100, price \$11,000, together with shotch of mane showing the position of the house in relation to the Sougharies of the lot in accordance with the spaces marked for distances on the slotch below.

Vory truly yours,

lae.

W. Iord, Esq. Trons.

Edison Electric Illuminating Co.

lawrence, Sass.

Dear Sir:-

We have your letter of the 27th, inst., and in reply bor to say that we have mode inquiries from the makers of the balance, which we sent to lawrence, and find that you are right in stating that the capacity does not reach the grazues,

We will order for the use of the lawrence company The balance to replace the one you now have, which latter we can use where 100 light meters are not called into requisition.

In relation to moters, we understand that your order No.1 called for fifty meters of 12 lights, twenty five of 23 lights and five of 30 lights, but indefined as we considered this arrangement both unequal and insufficient, we downed it advisable to make a give arrangement and supply you with a certain number of each of the different units, the aggregate cost of which would be the same as those which we first proposed to supply. We shall, however, have such pleasure in complying with your request to exchange the 12 light meters for an equal number of 35 lights capacity and the 25 light moters for an equal number of 30 lights capacity. We will also have the homessary plates and vubber parts

2

for the 12 light motors cent you without dolay.

We presume you understand that the caracity of these meters is gauged upon the assumption that each light to be recorded by them is of 10 candle power, in other words, a 6 light meter is capable of recording ten 10 candle lights, a 12 light meter records many 10 candle lights, a twenty five light records forty 10 candle lights, a fifty light records oughty 10 candle lights and a one hundred light meter will record one hundred and sixty 10 candle lights.

Yory truly yours

Zal

W. H. Dwelley Jr. Eng. Treas.

Edison Electric Illuminating Co.

Fall River, Mass.

hear Sir:-

stating that Fruezi's men have been ordered home for ten days, and in reply to your query as to why you are being neelected we been to say that inamsuch as the tubes will not be ready for ten days, we do not see the necessity of keeping a lot of men laying dele in Pall River and paying their expenses. You can rest assured that we are fully alive to the necessity of pushing your work and this we are doing to our utmost expacity, but we must really ank your will end to our utmost expacity, but we must really ank your are doing to our utmost expacity, but we must really ank your alittle patience and placing a little more confidence in our capability of keeping the premises we have made to you, namely, to have the Fall River installation completed at the carliest posseld a memont.

We are in receipt of your telegram of to-day's date

Vary Engly vouces

7. H. Bout/, Esq. President.

Edison Electric Illuminating co. Ponna. Shamokin.

Donr Sire-

I have your letter of the 30th, inst.

I am very sorry that you should object to the use of the double wire at Shamakin without first ensuring of me as to the facts. The New York Board of Fire Underwriters do not trouble us in the least, except incide of New York City. In towns like Shamokin they do not interfere with our business at all, as the property involved is comparatively small and, furthermore, I am confident that eventually they will sanction the use of the wire "sont you. So far they have not refused to sanction its use, and the matter has simply not been brought before thom. I think that you make a great mistake to refuse to have it used at Shamokin. Very truly yours.

C. E. Spoirs, Esq.

care D. Van Nostrand,

23 Murray Street, City.

Dear Sir:-

will you please let me know per bearer where we can

"find "Archives of Pharmacie"?

Very truly yours,

Toudenen lat

Thomas P. Conant, Esq.

Tonyors National Fotol.

Shamokin, Ponna.

Onar Siri-

I send you by this mail a copy of the questions on dynamos and engines and bullers and shall be glad if you will occupy your time by contributing to the literature of this establishment by answering same.

Vory truly yours,

رگ

Movember let

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition,

Louisville, ky.

Dear Sir:-

I send you herewith a set of questions on the meter, dynamo, emaine and boiler. Will you please answer same to the heat of your shillty and them back to us at your convenience.

Very truly yours,

3

Nevembér lst

W. H. Dwolley, Jr. Esq. Treas.

Edison Electric Elluminating Co.

Fall River, Hass.

Dour Sir:-

Your favor of the "lat, ulto, case to hand this sorning, and the tone of it surprises so extremely. You refer to sin knucsi subjecting you to delays as if he was doing so intentionully. Cannot you understand that it is impossible for his son to be of any use in Fall River datillhe has the second theor ready to lay. We are just as anxious as you are to have the plant installed quickly, but so sust protest short deficiently departs the frequency and unreasonableness of your complaints.

Allow no to suggest that it is quite presenture on your part to ank on the first of November how we propose to get your plant running by the endoof covember. I would remaind the that you were warned before the contract was closed that there would be considerable delay unless your tempers guaranteed the cost or the tuber, so as to enable us to order some in anticipation of our closing the contract, and I would further remind you that you presided to send us such a guarantee and that you failed to do so, and any complaint that you now have to make so to the delay should be made to yourself for failing to send us the guarantee above.

coforroging and not against us.

your tubes completed before frost sets in has been sufficiently childrend upon and that a restition is entirely unnecessary, and L would again beg of you to exercise a little patience, inasmuch as working only twenty three days have classed since the contract with your contant was closed.

The work will be done in the best manner possible and will be started as soon as possible. The laying would have commenced at least live days are if the guarantee from you as to the tubes had been sent at the time we usked for it.

To talk of Mr Erwari additing the responsibility or putting off laying the tubes, Seems to me an absurdity. It is to my interest and to Mr truesi's interest that the laying should be commended as early as possible, although my assirtions to this offer do not now to earry any saight with you.

As to none but competent men being employed, I have yet to find that it has been our habit to employ incompetent men, and the troubles that we met with in Lawrence and brockton are such troubles as we fully expect to beet with at Wall River. If you

can tell us how to avoid that I am sure we shall be very glad to resolve your advise in the matter.

Very truly yours,

L

Covember 3rd

3

D. Boran, Esq.

coneral Supe, of Construction,

Western Union Telegraph Co.

Boor Sir:-

on J. Biblor, of 15 Shirman Avenue, Secard, N. J., ban applied to see for a jointion in exemption with the execution of closure light lines, and states that he has had therefore years experience an foreman of gauge, And refers in to you for information as to gauge the companion of companion of companions.

me this information?

Very truly yours,

2ak

November 3rd

. . .

D. H. Bates, Esq.

Western Union Tolograph Co.

. 105 Broadwdy, City.

Dear Sir:-

And J. Histor, of 1.77 Shorman Avenue, desain, J. J., has applied to me for a jointion in commention with the erection of Cleatric light lines, and states that he has had thereon yours experience as foremen of 1.2.8, and refers me to you for information as to his emphilities. Can you so far oblige no by giving up this information?

Vois truly yours.

2ar

Movember 3rd.

3

Richard Vause, Esq.

Hatal Moreury.

Durban, Katal.

Door Sir:-

Maforrine to your favor of the 17th September, which has been forwarded to so by the Lindmons of in Charles V. Miley, the Consul Ceneral of the Grange Francis, Philadelphia, Fenna, I hop to state that possibly my Phonograph might be avuilable for the purpose for which you suggest. It would, however, require considerable improvement before being put to such use, and my time at the present is so fully occupied with other matters that I mainfraid that this will have to stand over until I have more lossure at my compand.

fours yory truly,

Tag.

7. S. Androws, Esq.

dare Edison Electric Illuminating Co.

lawrence, Mase.

odar Sart-

on Oalley, the neterman when I sent on to laurence, was at Comelle for some time. He seemed to answer most of the quantions very wall, but he has not had that experience with our sort which would qualify him to such im extent as comman.

If we love should make any remain with relation to him you might may that we Comman will be to Tearring shortly, as immediately I

can get him away from Shamokin I propose to sond him to you.

Yory truly yours,

Bovember Brd.

Thomas it. Comant, Esq.

Weavers Estional Notel

Shumokin, Ponna.

Door Sir:-

I am in receipt of your lotter of the Mist. Getebor, and I cond you herewith map of the town of Massolin, and shall be all and if you will trace thereon exactly where the present lines u run, and where the feeders join the mains, also indicate on the map the position of the proposed hew line with the position and pre-hable number of maximum lemps at each point marked thereon. We can then have the sizes of wire determined here in the effice. Planna attend to this right army and we will return the map to you in the course of a day or so.

Yory truly yours.

Tau.

Novomber 3rd, 1883.

W. H. Swelloy, Jr., Esq. Treas.

Edison Ricetric Illuminiting Go.

' Fall Sivor. 1

Doar Sir:-

We are in receipt of jour letter of November and., and will have the two 330 light dynamos shifted forthwith.

The torms of regions on which we sell to the Isolated Company and cash on the delivery of the machines. Will you believe advise us as to now we are to get regions from your

land Company

By Al

ovomber 3rd.

E. H. Ford, Esq. Treas.

Edison Electric Illuminating Co.

Lawrence, Mass.

Doar Sir:-

in onliny, our notoman, lost hore the day before yearterday for Lawrence, and I shall therefore be alad at you will limity comply with your presses to send me a check for \$10,000. Yours very bully.

2 ay

Joyombon Snd

Societo Electrique Edison.

33 Ave de 1º0. ove.

Paris, France.

Doar Sirs :-

T have your favor of the 17th, October, and in reply would beg to enclose you copy of a letter which I have received from the Prencis R. Unton, the Hanager of the Lang Gospany.

I would point out to you that no guarantee has ever been our riven that the life of lamps would be of 600 hours duration.

I cannot possibly conceive how our lamps should have been subject to such heavy breakage, unless they were run at very high candle lower, as the lamps are of precisely the same character as we are now using in this country and we hear no such complaints here.

Any test as to the life of lamps would of course have to be made in a regular manner, with a constant electro-metive force and the lamps run at the volts they are incomed for.

very truly yours,

Tai

inclosure

Rovembor 5th.

W. I. Iwelley, Jr. Esq. Treas.

Edison Electric Illaminating Co.

Dear Sirt-

In a letter addressed to Sajor Saten by Mn Sponsor Borden of the New England Sajartment of the Edison Electric light Company the following occurs:

whome of our large stochholders are builders by trade and criticise the character of the work brickwork that is noing into the building. An Bow told me within a few days that one of the best massens in town said he thought it was shameful to put a Shillding torother as this is being constructed.

Our Superintendent, In Rich, was here yesterday and we drow his attention to the above, and he informed us that un Jerome Forden, one of your Building Consisted who has taken an active interest in the work, has expressed hisself as being perfectly natisfied, and he also stated that there was no reason whatever for the complaint. As we have not received from you officially any complaint as to the character of the central station work, we shall be glad to hear your views on the above remarks of Mr.

meet with the entire approval of your Company.

Very truly yours,

206

November 5th.

Faul D. Dyor, Esq.

St. Cloud Notel,

Canton, Ohio.

Dear Sir:

Will you please inform me at your earliest convenience how soon you will be through in un Stuart's territory, as I want you to go to New Orleans?

fory truly yours,



C. li. Johnson, Enq.

Mad Avenue h, City.

De Dear Sir;-

I had a tall with he Peiron last might with relation to the tage and for un by the Ambonia Congony, and he requested A had to see you about rotting the most passed on and approved by the Board of Fire Endownitors.

I wash you would speak to him about the matter and take it in hand right away, as our control station business is seriously affected by the coubt existing as to whether the heard will allow us to use the time.

Yours yory truly

S-J PJ W. H. Moore, Esq.

Rahway, N.J

Dear Sir;-

I reserve very much to hear that you are about to sever your connection with the Edison Company for Isolated lighting, and it affords me very great pleasure to testify to your ability and industry in connection with the various matters that you have had in charge on my behalf.

Your trij to China and Japan on my account to hunt for humboo or other fibre was highly satisfactory to me, as evidenced by the fact that you found exactly what I required for use in connection with the manufacture of my lamps. I was also very much satisfied with the services you rendered me during your connection with the Edison Machine works, asypurchasing agent, and have every reason to believe that you have given perfect shifts faction to the Edison Company for Isolated Lighting during your connection with them, but as to this matter, I have no doubt that they will be willing to speak themselves.

Wishing you overy success, and again expressing my regret

that you are about

November 5th.

"Manager."

Western Union Telegraph Office, 852 Broadway, City.

Dear Sir:-

will you please have an American District Telegraph call rut in Mr Edison's apartments at the "Clarendon", luth, Street and 4th, Avenue, If the on you send will ask for Mas, Edison, she will give him instructions as to where the call is to be placed.

Yours truly

PI

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Revember 5th

A. Stuart, Esq. Secty.

Cincinnati, Chic

Boar Sir:-

I as very anxious to have in yer go to how orleans at the ourliest possible moment, and shall be glas to hear from you as to how scoreyou can spare him. It is a natter of very resit injectance to us that he should be despatched this week, and so therefore trust that you will emseaver to male your arrangements to dispense aith his services for the present accordingly.

very truly yours.

DS.

65 Fifth Ave., New York Nov.5th. 1885

Charles Batchelor, Esq.

Paris, Franco,

My Dear Batchelor:-

I cabled you the other day as follows, *Peculiar about 130, thickness about par, regulation unsalable,
wakeful*, which according to my code with you you will understand
as follows: Edison Electric Light Company stock about 130,

Edison Electric Light Company stock about 130,

ally yory weak.

I have been waiting to see whether an advance would take

place in the price of our stocks but there does not seem to be much chance of one at the present seemst. The depressed state of the general stock market and the great shrinkage in values which has been going our new for mouths seems to have effected such outside things as Edison Electric light Stock very much indeed. When the capital was increased to \$1,000,000., seem few wooks back, the stock went down about seventy five points, which was of course to be expected owing to the increased capabilization.

Isolated stock has greatly fallen until it has get to quite a low point. I had expected that in stead of a decline we should have had a rise in prices, and I based my belief on the improved state of our business, the development of the central station business in small towns and the excellent footing obtained in the first district, but of course the troubles in wall Street, where every-

thing has been going to the "dogs for senetime passi, besides one's calculations in relation to advance in prices, and under the carciumstances I do not know exactl, what to do for you, and consequently thought it best to cable you the state of the mariet.

I wish, on receipt of this, you would exte me in relation to the matter, inassauch as I leave here for london on the lith. December, and would not have time to de mighting much for you if you wait to write to me. Of course when in london I shall run over to Paris to see you. I am gaing over primarily for the object of spending Christman in Jondon with my folls, as it is three years since I dans here, and I thin my business is in a better shape now than it has been at any previous time and therefore Edison will suffer the least possible inconventeed from my absonce.

Now for a few remarks about our business.

nown fown station. I do not know whother you have heard that the down town district went out one hight last week, the lights were out for some two hours. The cause of the failure was given out to be that the safety catches had all melted in consequence of their being large enough to carry only the Summer load, and the man who had charge of the safety catches was under a sespograce and discharged. Unother this was the exact cause of the trouble or not I do not know at present, but I will doubtloss be able to tell you about it in person when I we you. I was away in Cincinnati at the time the trouble occurred, and therefore I am not at all posted an to the cause thereof. As I understand from Johnson

first one feeder safety catch gave out, which throw the load on the other eleven, then another gave out and so on until there was only one feeder connected, which of course "busted." Strague is now engaged with Edison down at the Central Station looking into the matter. There is no serious trouble, I do not think, and the district was running again all right two hours after. it may seem to you a little "gassing" for me to say so, yet truth compels me to record that the day after the broakquye we had more new audications for light than any day previously. now connected up in the First District over 10,000 lamps and our load in the evening is about 5,000, and the average lighting for the whole twenty four hoursboing about 1,100 to 1,200. come over in Pecember I shall bring with me for your private information figures as to how the station stands. If the showing is vory fine I will bring an official statement which you can make use of.

Out of Town Stations. We have now got running Sunbury, Ia. station, 360 lights, Shemolin, Ia. cickion, 1,600 lights, Erockton, Mass.

Hass. station, 1,600 lights, Therefore stating 3,200 lights.

Pall River, Mass. station, 1,600 lights will be running about the ond of peromber; Tiffin, Chic station, 1,000 lights, will be running about Christmas; Kowburgh, K.Y., 1,000 lights, will be running about the same time. These stations aggregate about a quarter of a million of dollars of contral station contract work. We have got a number of others coming along, and next Spring we shall undoubtedly do a very large business indoor in this kind of

work, so you see that our anticipations of large business, when you were here, are about coming true, and I think by next Summer we shall have a great deal more than we can comfortably handle.

Wachine Worls. Soldan was put in Doan's place at the Machine works. He has not got that onormous amount of power which bean had, and I thind it is a good thing that he should not have it The office of the Edison Machine Works is at 65 Fifth Avenue, that is in our office here, and its finances and everything in relation to its business is running very well. We order material from here, and I make arrangements from here with the people we buy from. The Superintendent of the Works builds machines at Goorek Street and takes charge of his men and there his functions one We had a thorough examination of the books made but there was nothing in them which we could call irregular. The only thing which we could not understand, and which we never as yet have been able to got at the bottom of, and which I do not believe we will ever get at the bottom of, is the enormous prices baid by Dean to his men on contract work. The men who got most of the "boodle out of these contracts were boon companions of Dean, and they swoar that he never got a cent from any contracts that he had with them for this work. It seems incredible that such should be the case, but I do not see any ressibility whatever of going bohind the statements of the men. I have had private detectives at work. I have threatened and promised and buildozed but noth will soom to got out of the men the facts about the case. although I cannot get at the bottom of the matter. I a

confident as ever that Hr. Dean had a large "divy" with his men on contracts. I found that Dean borrowed money right and left, and that everybody that surplied the Machine Worls with goods were subject to most abuminable blackmail and that Edison was fast getting a very bad name, as Dean gave the impression that Edison was fully aware of his (Doan's) private dealings with the peoule the Machine Works bought from. I also discovered that we Dean "" had stolen about \$200, worth of scrap, that is he had had the" seven taken from the works, sent to a man in Brooklyn and received himself the cash for same. Although it might have been possible to indict Mr. Doan for constitucy for receiving commissions, we were advised that our case would be a very flimsy one, not that we wanted to bring the matter into court, but we wanted to have something that we could hold over bear if he got obstinate, but of course when I discovered the stealing of scrap, although it was a comparatively small amount it was quite sufficient for my On last year's orders, which you may remember was a very large one, Dean had due him about \$9,000., the amount of seven per cent profit of the job which Edison promised him. my policy was to save the Edison Machine Works any such sum, and Mr. Dean's stealing scrap gave me the opportunity. We have now in the safe a release, from Charles 1. Dean to T. A. Edison and Charles batcholor, trading as the Edison Machine Works, which sots the Lachine Works free from any claim that Dean say have had, so is a clear saving of \$5,000, after getting rid of him.

had to deal with Recap. I do not think that he was guilty of any criminal knowledge of what Dean was doing. I do think. however, that he shut his eyes to cortain irregularities which I noticed, and wking first Jed me to make my first inquiries which resulted in my reporting the matter to Edison. Rocap's defence is that Edison stood up for Dean against everybody, and that he (Rocap) reported several matters to Edison at one time which Edison refused to take any notice of. Anyway Rocap had to Ro. of co-operating with me for the last two and a half years he has persistently and consistently put every obstacle in my way to prevent my getting information at Goerck Street, notwithstanding the fact that when he was ongased, it was perfectly understood that he was to work under my direction, and I think if I had had a little more co-operation at the backine Works, I might have not to the bottom of the trouble earlier. Mr. Rocap also had an unsettled claim against the Machine Worls for \$1,400, in connection with NAMER the same deal as Boan, and Rocap started to threaten suit against us for the amount. I had advised Edison and he had agreed to pay Rocap, but as soon as the threat to start suit was made, I got Edison to allow me to take the matter in hand again, and I am now engaged in an effort to delay payment to Rocup and save a possible thousand deliges in settlement. If I succeed it will be due to a smart young lawyer who is handling the business.

Thether Soldan will turn out a good Sujerintendent or not in very difficult to judge at present. So much of his work this Fall has been of an experimental character, and one can hardly judge of a man's capabilities to handle fork chemply and quickly in connection with the Hackins works at the present mement.

Anyway he is honest, attends to his business all the time, and he keeps his shop in apparently very good order and everything seems well systematized.

Jamp Company. Mc. Joughlin has sold his five rer cent interest in the lamp Company to Upton for 312,000 .. This would place the lamp Factory property at a value of about \$200,000. on HI TON'S valuation. Inasmuch as Ofton is running the Factory he ought to be better acquainted with this than anyone else, and if he values the projecty at \$250,000. For the purpose of buying a furthu interest in it. I should imagine that its real value must be nearer 3300,000. At that present time there is about \$190,000, invested in it, \$160,000. carital and \$30,000. borrowed from Upton. Then you remember that for practically eighteen months or two years it was nothing but outgo all the time and that there was an enormous amount sunk in experimental work, which must be looked uron as so much lost, you cannot but come to the conclusion that the lamp Pactory's business is in a very flourishing state. We are goingto put the lamp Pactory into a close corporation with a capital of one hundred shares of \$100, each. This will be done before I go "to Europe. Before this is done we shall put experts upon the "" books and make a thorough examination and balance prior to the business being turned over to a corporation, and I shall hope to bring with me for your information a statement of the Jamp Factory's business, on which you can rely far better than the above

statement

Bergmann & Co. Bergmann & Cols balance for the year ending Soptember is now out and they are \$55,000, ahead on the year's business. Of course this is not in cash but in troperty. as practically all profit of the shops ought to be for sometime to come, owing to lack of working capital. Of this \$55,000, Edison is entitled to one third, which makes \$10,000,, and you are entitled to ten per cent out of this one third, shich makes \$1,800. You have invested in Bergmann * Go's semething over \$4,000; and if they had ample working capital and a division of the profits had been made at the end of the year, instead of it having been loft in the business. You would on your investment of a little over 34,000, have made 21,800, cash. As it is of course you simply make on paper, although the property in which the profits have been invested is valuable. I do not know whether Perguann had done so when you were here, but in addition to the original building, he has bought another lot 25 x 100, which makes the property 125 x 100; and he has built on this small lot a brass foundry and eargenter shop. Pergmann's co. do all the brass wo for the Machine Worls and Iruesi, as well as for thomselves.

I do not know that I can write you any more just now, in fact if it were not Sunday I would not be able to spend the time in dictabling this letter. If you want me to do anything for you or bring anything over, please write me immediately you get this?

As I sail on the "Alaska" December 11th., I shall be in london about December 21st. or \$2nd., and shall hope to be in Paris about the New Year. I have got to leave Jiverpool semetime about January 5th. or 10th., so as to be home before the com-

Yours very truly

Written by Samuel Insull Ko.

Major Frank &c.logghlin,

Park House,

Newark, N. J.

My Doar Hajor:-

With relation to your request that I should make an astimate for the erection of an electric light plant to light the big lend funnel, I beg to state that owing to a sudden rush of husiness in connectior with our central station down town, my time has been so fully occupied since I received the data from you that I have been quite unable to take the matter up. I fear that I shall have to give the greater portion of my time to our central station work for semestime to come yet, and I must therefore ask you to offer my apologies to Dr. Pierce for the delay which will of necessity occur in getting the estimates asked for. The matter is one which I wish to attend to personally, as it is of a special character, otherwise I would turn it over to my engineers for their attention.

Very truly yours,

T.C.

November 7th.

A. E. Boach, Esq.

261 Broadway, City.

Friend Beach:-

Will you please let me know when you think you will be able to publish the article on "Storage Hatterier" which I sent you some time back,

very truly yours,

. .

November 7th

Goorge P. Pliss, Ecq. Suft.

Chicago, Ills.

Doar Sir:-

We have your letter of the 5th, inst. relative to Mondute, and in rejly would say that we consider your idea of allowing the people there to "cool off" a good one.

We have not yet received definite information as to Appleton, although we have been daily expecting it. We also would be interested to know what steps are being taken in regard to Racino.

Vory truly yours,

Jan

Fovember 7th

Er. P. Comant, Fag.

Door Sir:-

Performing to your wish to be removed an Shamekin, I fully appendized with you and tenst that your took?

Will hold out until the troubles at Shamekin are fixed. The ediated everywhing is running misely, I will see that you are removed from the ladd of tough steaks, and if you will only come on here some evening at d o'clock, I will take you up to Delmonico's and region you with such a real as you have not seen in ages.

. Yer, truly yours,

8

Noy. 7th

ic. 7. P. Commis.

Dear Sirt-

I have your favor of the 4th. inst.

and in consequence of the receipt thereof have decided to send /prington 2 Sins' ran on to Shanskin insediately. I enclose you juster from he. Downy which I shall be glad if you will return to be sith such explanation of the troubles as your previous approximation of the troubles as your previous

Very truly yours

Jan

Hovember 7th

Joseph Williams, Esq.

San Joso, Cal

Door Sir:-

Roplying to your letter of the soth, inst., in which you ask if a tolophond could be operated onna railway train, I bog to say that it is rossible, especially if the instrument used is a string telephone.

Yory truly yours,

1883-11-07.

Boy. 7th.

F. R. Upton, Fsq.

Fast Mewark, M. J.

near Sir:-

We have complaints from the Sunbury company about the arsing of their lamps.

Very truly yours,

19

Movember 7th.

A. Steart, Esq. Secty.

Gineinnati, Ohio.

I say in recoipt of your tolegrees of the ith, inst. asking sky definite sork has not been began as presided, such delays are rainous. You must really lowe to us to decide when I shall send a man to a certain to m to start the sork locally. Lancatiately a contract is signed that meant the sork cockences although it may not be visible in the team shows the plant is to be installed. We have quite an exacut of machinery, who we to get out before it is possible to do such sork locally. This has been proceeding and T do not think you have any cause for complaint as to delay at Tiffin. As matter of fact our Supt., Kr. Pich, left Fall Fiver Bonday night for Tiffin, and signs of sork will be visible there in a few days.

Yory truly yours.

Jar

November 7th.

Zillies J. Card, Psq.

Srown's totel

33 Pulton street,

Brooklyn, N. Y.

Door Sint-

There your lotter of Moresber With. If you will apply to lesses derives for the, they did let you the star lotter. They have demands current and will I feel sure give you the feelilities you desire.

Jery truly gours,

Sovember 7th.

3

Samuel Insull, Esq.

leston, Hass

Dear Sir:-

In relation to lawrence, I beg to say that in accordamen with our Order No.1, as per the item on the attached statement marked "C", the Illuminating company is indebted to us to the extent of 35.734. In accordance with item "b", which I believe was accepted by an lord, it being the same that you made to him from Brockton, they owe us \$1,255,20 Item "B" is for the extension of the mains on the North side of Essex Street, and is the amount in connection with which we had the correspondence with in lord, and he did not appear desirous of accepting our figures for this work, stating that mes contract with Mr. Edison covered the full system to be ordered as they wished. Item "P" is for laying mains to the City Hall, which was not included in our contract, and amounts to \$108.14 The amount of the bill which I attach is for house services, tools Ac., as perfectails shown, and amounts to \$1,242.05, and these amounts aggregate \$12,808.83. The full amount of our contract with the Edison Electric Illuminating Company of Lawrence for street installution is \$10,846. You will notice that in Order No. I the amount for street installation is

.

St, 7784, which is alon "c" on the attached statement, and this deducted from the rull amount allowed in the estimate for stroot installation loaves a mercin of 31, 112, which was to be devoted to considering the system in accordance with our exhibits sont with the estimate, but inacquel as they have ordered inversely thins we approad in the first place to do and they have exceeded that amount considerably. I have deducted from the statement Gloo. For a meter balance which we agreed to supply in Order No.1, and which was charged into the lawrence Illuminating account erronously.

You can make any other deductions you see fit, but as I do not know the amount you would wish to deduct for office furniture, inammuch as we specified none in our estimate and I consider it better to leave this for you. You will see that the amount which the lawrence Company owes us is \$1,002.03 \$22,000 and above our contract with them.

Vory traly yours.

000

3

Semuel Insull, Esq.

Boston, bass.

by Dear Insull :-

you two bills. On is itemized and shows the actual cost to us for the material supplied by kruesi for house services, &c. and the other is the regulation bill with twelve for cent added. which latter I presume you will use for collection. I regret very much to say that I have hunted everywhere to obtain a copy of the Exhibit which accompanied the estimate we sent to the lawrence Company amounting to \$32,572, but have uttorly failed to obtain one, nor can I find anywhere the letter which I am still under the impression you wrote designating the course of the mains. I am very sorry to have to write you this, but it is simply imressible for me to discover where this data is, and you will now have to obtain the Exhibit from Er lord. The course of the mains as specified in our Order No.] is in accordance with Item "C" on the statement which I have attached. I cannot even find bracei's bid for the street installation in accordance with the item (you will understand when I say estimate I mean the full Order which includes Order No.1).

In regard to our lawrence affairs I am sending

2

In relation to Brockton accounts, I have also enclosed two bills, one itemazed for four our information and the other with the twelve per cont added.

I trust that you will recognize the last that this data
is as complete as I can sale it, and at the measur of writing
this I w. in the mass humor as you will be at the measur of
requiant it.

I enclose the learence contract which you may possibly want in settling up affairs there.

Yours very truly,

arey

November 7th

_

E. H. Pord, Esq. Treas.

Edison Electric Illuminating Co.

lawrence, tass.

Bear Sir:-

We beg to acknowledge with many thanks receipt of your favor of yesterday's date enclosing check for \$10,000, on account of our contract for the installation of central station plant at lawrence.

Yours yery truly

Jac

Nov. 7th.

Pr. M. Mard Leonard.

Brockton, Bass.

Dear Sir:-

I have yours of the tith and must request you to stay at Brockton for the present and not to come to Hear York before roung to Jarrense until you have advices either from this office or from ir. Insull who will be Fast during the next few days.

You are mistaken if you think we want you to go to Goerck street to experiment. We desire you a stay at such station as you are sent to until r request you to go classhops.

Yery truly yours,

Jak ?

Nov. 7th.

kr. Frank S. Barr,

Sumbury, Pa.

Dear Sir:-

I have four fayor of the Ord. of Movember. relation to the charge for 33 candle lasss. I would beg to say "" that the average lighting time for the 305 days in the year is at G o'clock in the evening. Hotels want the light until 2 A. N. This makes 0 hours at 1 4 cents per ten candles per hour. The showing would be 3 4 cents per hour or 30 cents for the 3 hours. This would give you about 3110 for the 365 days of the year. If you charge \$50 per year it sould be at 'he rate of about 1 16 por thousand feet of coul gas. You might make a contract at this rate only by the month with the privilinge of stopping when you get loaded up and have an opportunity of taking botter consumers." I agree with you that the extension of your mains should take place before the cold seather comes. If you will please have your moter man mark upon the charts sent herewith exactly where the present mains run and there the feeders run as and also mark on the chart where you propose running your new mains, I will have calculations made and let you know exactly what size of copper wire should be run for the extended circuit. I cannot understand why your lamps are so. Very truly yours.

Tar,

November 5th.

A. Stuurt, Esq. Secty.

Cincinnati, Chio

Dear Sir:-

Replying to your lotter of the Oth, inst, in reference to are lights, we bor to say that we have an are light are that can be worled on our circuit, but not nearly so economically or nutisfactorily as incandescent lights of large power. Our large lower larges are petting to be excellent in life and economy. We have a new wire and all devices requisite for using it and we hope in a few days to be in receipt of authority from the loard of Fire Underwriters to use it. If we fail to obtain this, which is hardly likely, we should do wiring in the old manner.

In relation to Cynthiana and Maysvillo estimates, we are pushing them through with all possible speed, and will make them as low as we can,

Our Superintendent, in Rich, is at the present mement in Fiffin, and will see that everything is done to advance work there.

Very truly yours,

2

Charles S. N. Smell. Esq., Frost.

a. Y. Electrical Society,

Room 40, W. U. Building, City.

Doar Sir:-

Replying to your letter of the 5th, inst., I ber to say that it would give me great pleasure to comply with your request and deliver a lecture for the benefit of the bembersger your focusity were I possessed of the powers of cratery requisity for such an occasion. The fact of the matter is I never delivered a lecture in my life. You of course understand that there is a very great difference between talking and inventing, and though I have made rather a success of the latter the former is an accomplishment which I do not possess, and I must therefore ask you to very kindly accept my regrets together with my best wishes for the wellfaceout your Society.

Very truly yours,

Jay

November 8th.

Coorne H. Eliss, Esq. General Sup-

Chicaro, Ills

Dear Sir:-

erection of an Edison Floatric light Control Station Float at Reenah, Wis. of 500 lights capacity and amounting to 37,085. together with man "A" referred to in the estimate, showing the course of our proposed street installation, which takes in 606 lights. The estimate is based upon the assumption that the local Company provide the building, power and all necessary shafting, fulloys, hangers, bolting Se, to and including jack shart, requisite for the proper and efficient operation of their station. In regard to our bid for street installation, this is based upon the ascumption that all permits and concessions necessary to be obtained from city authorities or private parties shall be procured by the local Company, to enable us to erect poles and run our wires in accordance with the red and white lines on Exhibit Should they fail to obtain any of these and thereby cause us any additional excess. it is understood and acreed that they shall reimburse us to the extent of the excess. You will observe that the cost for last of this installation, as far as we are

Second the we have to one lose our estimate ite. 30 for the

concerned, ic 313,77 As it only remains for the local company to crost their building, which must only be a small one, the installation is joing to be a particularly chem, one, and we think our last of it full be found satisfactory in all response.

If you come to any definite understanding with these people which would necessitate forms of agreement, we shall be also to sent them.

Yory truly yours,

2ac

Sponcer Porden, Esq.

Boston, Mass.

bear Sir:-

We enclose herewith our estimate No. 34 for the erection of an Edison Electric light contral Station Plant at Eatich, Mass. of 1,000 lasts especity and ascenting to 223,233,36, and under separate cover we send you our Exhibit "A", showing the course of our proposed strent installation, together with plan of proposed contral station. You will notice that the cost per last of this estimate is 223,23, which, for an underground system, we consider yory reasonable. The Newburgh installation, which we have just closed, came to about the name Tiguro.

We also onelose you our estimate No. No for the erection of an Edison Electric light Control Station Flant at Normich, Conn. of 1,000 lights capacity, and under separate cover we send you our Exhibit "A" referred to in the estimate, showing the course of our street installation, together with plan of central station, the details of which are the same as the Eatlek station. This estimate Emounts to \$23,370, or \$23,37 per lamp, which is about 43 course per lamp in excess of the Natick estimate. This excess is accounted for by the fact that our proposed street installation will accommend to \$23,370 lights, whereas the street installation will accommend to \$23,370 lights, whereas the street installa-

tion in Satisf takes in but 1,000. We will send you whomever necessary forms of agreement for electing either or both of these contracts, but if anything is to be done in the matter this wall, impediate steps must be taken, as in a very short time so will have frost to contend with which would of course jut an end to everything in connection with displicitly streets for the jurpose of laying our mains. If the watich or worsich people wish to do that becaused we consider these estimates give results which must be perfectly satisfactory. They will of course understand that by delaying the matter until Spring they will loss a great deal of money by not being able to take advantage of that season of the year when the average burning of light is the longest.

We shall be plad to hear from you as early as possible what steps are beams taken to effect a actilement, and in the mountains we hop to remain.

Vory truly yours

Jac

M. C. Pellnar, Esq. Secretary

Edison Electric Illuminating Co.

howburgh,

We have the pleasure to enclose you herewith revised plan of the Newburgh central station showing all the details necessary for your contractor to have. We trust that the details of it will be accurately carried out, as any deviation would proatly interfere with our arrangements.

Our Superintendent will visit Newburgh shortly to soo how you are gotting along;

Vory truly yours.

Hovembor Eth

ovembar .ceu.

V. Burrows, Esq.

Room lo.

46 Broadway, City.

Dear Sirt-

Will you lindly lot us know the xxxxx thard class rates to Peenah, Wis. and Dambury, Conn. We require these rates for entimating purposes and it will be necessary for you to quote from the (ariff at the present time in force. When we can to easy material we will supply you with the forms you suggested properly filled out, in order that you may obtain special quotations for us on our material.

Very truly yours.

7an

Movember 8th.

Mossrs. Harris & Robinson,

. Hartford, Gonn.

Dear Sirs:-

We have the pleasure to enclose you herewith our estimate No.31 for the erection of an Eduson Electric light Central Station Plant at Danbury, Conn. of 1,000 lights capacity and amount ing to \$25,414.56 On account of having to prepare this estimate under great pressure, is order to keep our promise to you to mail it to-might, it was impossible for us to send a man to Danbury for the purpose of inspecting the streets, preparatory to making a bid for the street installation. On this account the amount which we have estimated for same is subject to revision. br bruesi, of the Electric Tube Company, will go to Danbury this wool, if possible, and certainly not later than Monday, and obtain such data as he may require to enable him to submit a fresh estimate for the street installation, and we will immediately advise you of the result. You will notice that as the figures stand now the cost per lamp is \$25.51, but this is accounted for by the lighting of the district boing very much scattered and necessitating long mains and fooders. In Nowburgh, M.Y., where we have just closed a contract and commenced work, the cost per lamp was about

\$23., but the district was much more compact than banbury and the feeders much shorter. You will see that the comparison between the two estimates would be very favorable, and the seemingly high exercise for long of the banbury proposed installation is vary undistrictorily accounted for by the larger amount of copper which it is necessary to one and the greater amount of excavation required to lay the mains, also the fact that these mains are laid to accompdate 1,271 lights.

Under separate cover we send you map "A" referred to in the estimate, showing the course of our proposed street installation, and if you come to any definite arrangement with the Danbury Company, we will forward you forms of agreement. Under same cover we send you plan of our proposed central station, showing the general arrangement of its interior.

Trusting that these will most your requirements, we are

Very truly yours,

Movember With. 3

H. Ward Toonard, Esq.

care Edison Klectric Illuminating Go. Brockton, Bass.

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Doar Sir:-

Replying to your letter of the 7th, inst., to beg to say that we consider it would be advisable for you to purchase the lhotometer you mention.

Yours truly

Jah

Ball Engine Co.

Brio, Penna.

Dear Sirs:-

Replying to your lot or of the Skh. inst., we beg to say that we understand that there is some question about patents existing between your Company and the Armington & Sims Company. To are not bound by this latter Company in any way, and we use their enrines because they have given better results in our business than any other engine we have ever tried. In the matter of countershafting, we never, under any circumstances, make use of it, as we consider it to be an impediment to the proper and satisfactory working of our stations.

Have you any opinion of experts that your engine is patent free, if so would you be kind enough to let me see it?

Yory truly yours,

Tak

November 5th.

a

P. B. Shaw, Esq.

Williamsport, Penna.

Doar Sir:-

We have your letter of the 3th, inst, in reference to the brewage of lamps at Sunbury, and in reply beg to say that we have cent an expert from the lamp factory who will ascertain the cause of the trouble.

We have to-day written an ke. Cormick very fully on the subject, and trust in a short time to cradicate the difficulty.

Very truly yours,

Jan

Mt. Carmel

vember Eth.

F. B. Shaw, Esq.

Williamsport, Fenna

Dear Sir:-

We beg to enclose herewith our estimate to 73 for the erection of an Edison Electric light Control Station Plant at lit. Carmel, Fenna, of 500 lights capacity, and emounting to \$14,500. and under same cover we send you man "A" referred to in the estimate, together with plan of proposed centr : station. This installation, as you will see, comes to \$20.12 per lang, which considering that the street installation covers nearly 200 more lights than the nominal capacity of bthe plant and that the instal-"lation is a very small one (in which cases the dest per lumn always runs of high) is a very fair estimate. The central station toomight have been located at a better point, but as you understand the Vt. Carmel people purchased the let for this purpose without consulting us in the matter. The Sunbury installation. we might mention, came to about the seme figure, and we feel sure that when you explain to the At. Carmel continuon about the cost por lump running up vory high in such south sized understand the ease and fall in with our ideas that the estimate is a good one. There is one thing that we wish to impress upon you and upon the gentlemen interested at "t. Carpel as forcibly as is

possible for us to do.it, and that is, that there sust not be a days delay in giving us the order for this installation, if shey desire it to be jut in this Fall. In a very short time we will have front to contend with which would jut an end to all work in connection with excevating for our pole line and foundations. The it carmed Company will or course understand that by delaying this matter until spring they will lose a great deal of money by not being in a position to take advantage of that season of the your when the average burning of take light is the longest.

We will send you to-nerrow forms of agreement filled out and executed as far as we are concerned, and if we get this order at once, we will command work right away.

Trusting you will recognize the necessity of a very

ory truly yours

Enclosuro

November 6th.

H. M. Doubleday, Esq.

Edison Exhibit, Southern Exposition, Louisville, 17.

Dear Sir:-

We enclose herewith our check to 245 for 875., and wish you would be good enough to return to flow fork at once. Please ware us when you leave louisville, which we trust will be on forday the 18th, inst.

Very truly yours,

Enclosure



November 9th.

Frank H. Mc. Cormick, Esq. Frest.

Edison Electric Illg. Co. of Sunbury,

Williamsport, Penna.

We have your letter of the 5th, inst, in reference to

Dear Sir:-

the breakage of lamps at Sunbury, and in reply box to say that we have sent an expert from the Lamp Pactory to Sunbury, who will very soon ascortain the cause. We strongly suspect that your local manbhas cut some customers in by running the service from the foedor instead of the main. What you should have done was to have ascertained at what particulariplace the breakage occurred, after which the cause of such breakage could be very readily obtained. The same lamme as you are using are in service at Shamokin, Brocktonnand Rosello and give 800 hours. The Lamp Factory's guarantee Is that if run at ten candle power, they will lest 600 hours, and wo know from experience, which is the best evidence that we could possibly have, thatbthese lamps are capable of bearing out the guarantee. . We regret that Wr. Harr should have been so inconsed. on account of the letter we wrote you, as Mr. Conant simply quoted the statements made by the engineer at Sunbury. The Lamp Pactory export will, however, find out the cause of the excessive breakage

Frank H. Mc. Cormick, Esq. Frest.

of lamps in Sunbury and adjust the matter so that there will be no further trouble.

Very truly yours,

. Hovesbor 6th

J. P. Bunn, Esq. Vice President.

Tiffin Edison Electric III. Go.

Tiffin, Ohio.

Dear Sir;-

We have your lotter of the Grd, inst. asking us to mame a date when the Miffin installation will be ready to supply light. In reply to that duery we would say that the work on the station has already been emmenced there and that its excellation will not tide more than twenty or twenty five days. The ware for the pole lines will be in Miffin in about ten days, and this work can proceed in amount with the work on the station, and should be concluded about the same time. We do not like to state positively that we will have the plant running by a certain time, but we want you to feel assured that xxxxxxxxxx we will do everything in our lower to most your wishes and have it running about the luth.

In relation to lighting the public garden you speak of, as far as we can tell from the incomplete information given in your letter, this appears to be in block 40. We are to submit a proposal to so Stuart for lighting this block, together with some other blocks, and when that has been received it will give you the

information you desire on that point. We trust you will understand that it is our desire to meet your wishes in this case and that the reason that we do not promise absolutely to start on the 16th, becomber is that there are so many points to be taken into consideration in making a promise of that kind that we consider it better for ourselves and for you to place the matter in the light we have, notwithstanding the fact that we feel reasonably sure of being able to meet your wishes.

Very truly yours

V. S. Hastings, Esq.

15 West 50th, Street, City.

My Dear Mr. Hastings:-

I have been receiving since last Wednesday very prossing telegrams from Bessrs. Harris & Robinson asking me to attend a meeting at Southington to-morrow (Monday), and I have repeatedly telegraphed them that it is simply impossible for me to do so, and yet they persist in wiring me to attend the meeting. Now after I got thore I do not see what good I can do, inasmuch as the license contract with the Light Company has not been closed yet. Harris & Robinson say that the most important stockholder leaves Southington for the South on Tuesday morning. and I think it is more a matter of the light Company's than the Construction Department's for the present, as I am positive, from my experience elsewhere, that after I go there there will be a lo of usoloss talk, and I will have to go later on to get my contract I have besides very important business to-morrow, having been out of the office the whole of last week, and I write to ask if you can go to Southington on the eight o'clock train to-morrow morning. If so, I would like to see you before you go, and I will come up to your house or I will meet you here anytime

this afternoon, after which hour I do not know whore I shall be.

> Will you please let me hear from you by bearer. Yours very truly,

Movember 12th.

Paul D. Dyer, Esq.

Warner House,

Chillicotho, Chio.

Door Sir:-

I have your various Totters from Canton. I am very anxious to have you go to New Orleans as soon as possible, and I want you to havry through on Fr. Stuart's work. You must finish with him by Saturday next at the latest.

Very truly yours,

19

3

J. G. Oliver, Esq.

Toronto, Canada,

Door Sir;-

Noterving to your favor of the oth. inst., I beg to inform you that my experiments are in the main confined to incandement electric large, and the substance you mention for carbon joints for are large will therefore to of no use to me.

Very truly yours,

2aa

A. Stuart, Esq. Socty.

Gincinnati, Ohio

Doar Sir:-

Your letter of the 4th, inst. came duly to hand.

We are delighted that you should recognize the fact that it is quite true that we cannot supply estimates unless we have the data whereon to work. Wiffin work was started issociately the writer got back to now fork. We you not know that there are several things to be done in connection with material before we can have men on the ground actually at work in the town itself.

We are justing saysville and cynthiane estimates as quickly as justifie, but I must remain you that we have a few towns outside of your terratory (that we have to estimate on.

That despatch about it. Edison going to louisville was received during the writers absence from town. That lets the liviate Secretary out, but it was answered just as moon as Mr. Edison could be get axis at by the Frivate Secretary's assistant.

If you did not not the reply you must blame the Western Union Telegraph Company and not us. I doubt very much whether mr. Edison will go to louisville at all. It is probable, however, that kajor Eaten will go South Sematine within the next wook or so,

Why don't you give us some more contracts, which is after all the main encouragement to us to keep plodding away at estimates One little contract of \$16,000,, which required a week of the wtiters time to get executed, and a trip of something like 650 miles, is hardly sufficient to justify the heavy investment we are making in canyassing, estimating and such like on your behalf. Where are those other two contracts that you said we should have within a few days of my leaving Cincinnati?

Very truly yours,

Hovember 13th

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Doar Sir:-

important that in Byer should leave your territory by Saturday next. We really think that you have one off quavasses to get along with. We have kept him in your district so long, to the prejudice of our business also where, that we feel compelled to insist up on his leaving you by Saturday next at the latest.

Noting that this will not cause you may great inconveniones, we remain,

Very truly yours

Tar J Straight line Engine Co.

Goddes & Fayette Sts.,

Syracuse, N.Y.

Dear Sirst-

We be: to acknowledge with thanks receipt of your favor of the loth, ingt. in relation to royalties on your engines, and will await the communication you propose sending us.

Yours truly,

Jak

Revember 13

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Doar Sir:-

We have your favor of the 5th, inst., asking us to send you an estimate for Piqua, with the central station located on the Parrington lot. The map which you mention in your letter came to hand a few minutes and, and it has therefore been impossible for us to comply with your request to wire the figures "on Mondays. Inasmuch as you want us to do very close figuring on this estimate, we wish you would the attached form filled in by some reliable person as accurately as possible, as to prices in We shall be glad to have this regurned at the carliest Piqua. possible moment, as we can give you no figures whatever until it is received by us. You also omitted to send us the size of the lost mentioned in the foregoing part of this letter. could have guessed at this size, but that is not always a safe thing to do. lloase sond us full particulars about this new lot in accordance with the form attached.

Yours, truly,

W. J. Jonks, Esq. Manager.

Edison Electric Illuminating Co.

brockton, Yass.

Doar Sir:-

Replying to your latter of the lath, inst, in regard to books and stationery covered by the amount of \$30. in the Brockton estimate, we have to say that it was our intention to supply a full set of books, together with special forms which we considered necessary for the running of your business. Some of these books are now being prepared by the printer, but it is our intention to made an allowance on this item and charge you only for what we sumply.

Yours truly,

P.S.

Frank S. Farr, Esq. Troas.

Edison Electric Illuminating Co.

Sunbury, Fenna.

Bear Sirt-

we beg to acknowledge recept of your letter of the th. inst., and in repl; would say that you can order clamts from Februs, Bergmann & Co., 2008 Weenuc B, City.

You ask for vulcanized fibre cleats and breds to see with ther. The cable can be obtained through us or by millioned threat to the Ansonia Brass & Copper Co., 10 Cliff Street, City.

In regard to the breakage of lamps, it is very strange that your metersan has not sense chough to see that his indicator is too high on one side and too low on the other. It requires hat a small assumt of judgement to make a comparison between the brightness of the lamps on the two sides. He should regulate those sides evenly and reset his indicator. Your breakage of lamps should be about fourteen a week.

Yours truly,

ovember 13th.

3

Col. G. E. Gouraud,

74 Hadison Avenue, City

My Door Colonel :-

Something Street

I have gobe thereupidy into the matter of the division of the Edison-Besser-Bell Telephone shares essume to the Edison interests and I do not see how I can do bottom than to offer a division of them on a basis of four-tenths to go to you for the countries you gut in and six-tenths to go to the Edison relephone Company of Europe here; you taking your proportion of the six-tenths, which you are entitled to under your grammement with the New York Edison Company.

If you will write me a note accepting the division as above stated, I will have the papers fixed up and mailed to you by Thursday's steamer without fail. I think that they should be put in a little more formed shape than that indicated in the formest letter already agreed upon between you and myself. I am very sorry that the matter should have been put off so long, but it was quitebounassidable.

Noting that you will have a pleasant tril home, believe me,

209

November 18th.

٠,

John Decker, Esq.

lewisburg, Union Co., Penna.

In reply to the query contained in your letter of the tth. inst. as to whether it would be possible to collect atmosphoric electrity on conducting wires, in order to obtain light, 1 her to say that the process is possible but highly impracticable.

Yours truly,

Jan J

G. W. Wilber, Esq.

Corner 4th. & Rodman Sts.

Fall River, Mass.

Door Sir:-

Please report at the carliest possible moment to this office and be prepared to take a journey South. We want you just as soon as you can got hore, and we shall be glad if you will wire us on receipt of this when we may expect to see you.

Rovember 18th.

Goorgo H. Bliss, Esq. Coneral Supt.

Chicago, Ills.

Dear Sir:-

We have your latter of the oth, inst, in reference to Appleton and Racine. In relation to the former, we trust that the information necessary for us to have, in order that we may prepare un estimate, will come to hand soon. We are glad to see you state that the Jacine estimate was matisfactory.

. Moreowith we beg to enclose you two copies of the form of agreement which is entered into by the local company with this herartment. We presume you have copies of the licenses contract which the farent Company uses in extending privileges to the local company. If you have not these latter copies Mr. Mastings will supply them.

Yours truly,

Enclosuro.

Personal.

November 14th.

Goorga Worthington, Esq.

33 Park Row, City.

Friend Worthington:-

You are barking up the group troes: Why did you not come and ask or Edison if he was the originator of the "Times" article before charging him in your paper with the "crime". You know him well shough and can easily get at him, and therefore it would cortainly have been a little more courteous if you had applied to him for information before allowing the article in your issue of the Eth. to be put in print. As you state "fair play is a jewel" and I might add that it is hardly fair play to judge a man guilty in advance. As a matter of fact Mr. Edison had nothing whatever to do with the article in question.

I write this for your personal information and not for publication.

Yours very truly,

89

covember 14th.

W. I. Carrison, Esq.

137 Fodoral Street,

Eoston, Rass.

liv Dear Sir:-

relation to the wiring. We are, at this writing, doing our best to get the cable accepted by the Soard of Fire Underwriters.
They have appointed a Committee to look into the matter, and Hager Eaton and En Edison are point to draw of a statement action; forth the advantages to us of using the cable, and immediately that is not out I understand that the Committee above referred to are to come here and tests are to be made with the cable to prove its adaptability to the purposes for which it is designed, and also to prove its safety when used instead of the ordinary two wires.

We all recognize that the question of choupening the wiring is about the next important matter attraction, und you may rely upon every possible before being made to give you something acceptable to the fire insurance people, and chapter than the material new used for house wiring purposes.

On my return to new York I spoke to be Edison with

51

vember 14th. 3

A. A. Cowles, Esq. Secty.

19 Cliff Street, City

Limitofic Sir:-

I have the pleasure to enclose you herewith a small order for copper wire for use at it. Carmel, Penna. I also enclose you copy of our contract with the Edison Electric Illuminating Company of Mt. Carmel. The parties in interest are good substantial people, and in fact every way satisfactory to us. We have undertaken to start cur plant by the 15th, December, and you will therefore please hurry this wire as much as possible. It should be shipped from your works at the latest ten days from onto.

It is impossible for me to not down town to-day, and if you can have the necessary papers propered and returned by bearer, I will execute them and send them right back to you. I shall be glied if you can let me know whether you can ship the copper in the time above specified.

Yours very truly

November 14th.

W. H. Dwelloy, Jr. Esq. Treas.

Edison Electric Tlluminating Co.

Fall Rivor, Wass.

Doar Sir:-

Neferring to your favor of the 12th, inst., I am of the impression that you will have to use the old method or wiring antil we get formicaion from the Buard of Fire Underwriters to use the new cable. They have the matter under consideration, but it is protty difficult to force them to deal with it quickly.

I should therefore think it advisable not to mention to your probable customers that we have a cheeper method of wiring under way.

Vory truly yours,

Jan

November 14th.

Charles Batchblor, Esq.

Paris, France,

My Doar Eatcholor:-

Your letter of the 30th, inst. came to hand this morning.

I do not see why we should keep up our prices on lamps if it is noting to ruin our lamp sales in Europe, and I shall therefore be very careful what i say in reply to Forges letter, which you say is to come here. Anyway I should by no means be disposed to accode to his request, considering that he is bidding for the English lamp trade as avainst us.

we have not up to this writing made any single core machines.

We propose to do so at some future time, but how it will interfere with the manufacture of the derman dynames I dennet see:

Our policy is, when we design and build a machine, to be very
careful to soll all machines of a given design before we bring out
anything better. By this mounts we save ourselves being "stuck"

with a lot of obsolete machines. We have sold in this country all
the old forms of dynamos and our new types are now coming out,

we are none the worse off financially for having brought out Such now designs. It would be rediculous, as you well know, to suppose that we could build a machine and say that there will nover be any alteration. Your Ivry friends do not soom to understand this matter, no they think that simply because we are going to turn the 100 light machine into a single magnet machine, that we process throwing and all those that, we have built with the double magnet? At this writing we have about fifteen double magnet machines of the 100 light type at Goerck Street, and they will al be sold before we make any single magnet machines. follow this policy out right through our business. The first "I" machines that were made would run only 350 lights and wore of the long magnet type. We built about twenty of them. Then we not out the improved "No. on which we can run 450 lights with case. The whole of the former were sold with the exception of two. and those two we have just managed to dispose of without any sacrifice whatever, and at the same price at which we sold the improved "Il" to a very obliging customer who wants 700 lights and nothing more. although he can get 800 for the same figure.

t am delighted to hear that you propped urcturning, and the secondry you do so the better. The prospects are that we shall

Yours very truly, so an

Sunbury

Royembor 14th.

.,

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Fall River, Bass.

Dear Sir:-

We closed this norming a contract for the installition of a plant which is practically the duplicate of Sunbury, at Et.Carmol. We have get to start the plant about the 17th, of December, which you will notice gives us little more than a month to do the work in. It is highly important that you should made a trip to Et.Carmol at the carliest possible moment. If you will please advise me by wire to-morrow when you can go there, I will moot you here at the office at any time when you may indicate when you go the broad have a talk with you before you go to bt.Carmol, and it is also necessary that you should not the oarliest date compatible with your arrangements for the pushing of the work at Fall Styer.

I onclose you belowith check for \$500, as requested in your note left here yesterday,

Your truly yours,

November 14th.

3

Charles batchedor, Esq.

Faris, France

My Dear Watchelor:-

I got your letter of the 30th, inst, this

froe and propose commun back here, but I as very sorry to say that I do not know exactly what to do with relation to stock matters for you. Ty long letter to you of whout a week are will have explained the cituation thereughly. To such to have posted you carlier, but you know how we are situated here and that must be considered. I arranged with Edison this sorping to cable to you casking if \$1,000, would be of any service to you, and if so, to draw on him at three days sight for same.

I hope that you will not leave la Bollo France before I gut over to see you. The caimet you arrange to come back on the "Overon" about the luth, January That in the time that I propose returning from my trip to Kingland.

Yours vory truly,

.

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Dear Sir:-

Er Boubloday has returned to town free losseville, and I propose sending his to you sax Friday might. Is he to go to lawronce or Fall River? If the station at Fall River will not be ready for you to start in there, I want he boubloday to apone the time between new and when it will be ready, in lawrence, so that you can further post him on our work, as I arranged with you when I saw you last.

Please let me have a roply by Friday morning's mail

Yory truly yours,

Movember 14th.

The Armington & Sims Go.

Providence, R. 1

Doar Sirs:-

Peferring to Order No. sont herewith, I beg to state that it is absolutely desential that you should stat the angument to Mt. Garmed inside of fourteen days. This is the longest possible time that we can gave you, and therefore mill rely upon your not disappointing us in the matter, as we have undertaken to start our plant about the lith, December.

Very truly yours,

Enclosure.

P. B. Shaw, Bsq.

Post Office.

liazelton. Fenna.

Dear Sir:-

the ordetion of an Edison Electric light Contral Station Plant at Conduction of an Edison Electric light Contral Station Plant at Hazelton, Ponna., amounting to \$20,004.41, and with a sequence of 1,219 lights, which we hope will reach you in time.

Very truly yours.

Jak

Movember 1 ith.

Hosers, Porris, Tasker & Go.

15 Gold Frenct, Caty.

Door Sirs:-

we enclose you herewith our order No. for steam paying to be chipped to it, sampel, beams. As this order is very small we trust that you wall be able to fill at for as immediately. We require to use this steam by ing in connection with a time contract that we have taken, and you will therefore very such children if you can state positively the date that you can ship the paying and fittings from fhillwelphia.

very truly yours,

Enclosure.

W. D. Rich, Esq.

care Edison Electric Illuminating Co.

Wall River, . Mass.

Dear Sir:- :

We have arranged with the Isolated Company to buy one of their large empines now at louisville to go to Tiffin, and have ordered them to ship it to 7. D. Rich, care Edison Electricallluminating Company, Tiffin, Ohio. Will you closes make the necessary arrangements to have it received there. I prosume it will be shipped inside of a week.

ery truly yours

Shamokin

November 15th.

Thomas P. Conant, Esq.

Weavers National Hotel.

Shamokin, Penna.

Doar Sir:-

I duly received your favor enclosing statement of the receipts for the first fifteen days record at Shamekin.

Will you please lot me have a statement of the running expenses of the station for the same period.

Very truly yours.

Wu.



Doutsche Edison Genellschaft,

Berlin, Germany.

Dear Sirs:-

Referring to our cables confirmed elsewhere, the statement that the Sawyer-Mann reorle have beaten me in a patent suit is ontirely untrue. Your Fatent Attorney will explain to you that the proceedure in the American Patent Office is that if two applicants cover the same point in their application for a patent, the matter is thrown into "interference", and the morits of the case decided by the Patent Office, and if they are appealed against the decision is revised by a higher court. The Board of Examiners whochre the scientific part of the Patent Office decided the Sawyar-Edison interference in my favor. The Sawyer people then appealed to the Commissioner of Patents, who reversed the decision of the Board of Examiners. We have now appealed to the Secretary of the Interior, but have no idea who will win. Anyway whoever wins, the case will be carried to the Supreme Court. There is really no great question involved in the application, and we fight it out on the general policy that wherever we have a

Dodazeke Edisen Cesellschart, Berlin, Cormany,

disjuic in the Patent Office we carry the matter to the highest possible Tribunal to obtain a settlement. The Sawyer interference refers to matters in relation to paper carbon, the use of which is entirely obsolete, and if I gain the case the result will simply be a little gain of prestine on my part, inasmuch as I should never think of using paper for my loop in the present advanced state of the art.

Very truly yours,





W. J. Janks, Esq. Manager.

Edison Electric Illuminating Co.

Brockton, bass.

Dear Sir:-

Referring to your favor of the 12th, inst., we shall be very glad to make equitable arrangements with you to furnish you with two machines in place of the one you now have as a spare. At the present tiem we have not dynamos of the class required on hand, which we could send you. I will notify you as soon as we have, and will see what proposition I can make as to taking the one you now have back again. You have such a standard equipment as we were able to estimate for at the time the contract was made. with the Brockton Company. The smaller machines were not at that time designed, and it was impossible for us to contract for anything else. It is not practicable at present to use the three brushes, and I doubt very much if it would be desirable with the now system of winding, which at present is not in that state of perfection which will allow of our using it. I shall probably he able to were sure the course of ten days or so as to supplying you with two smaller machines. Cannot you arrange to put all the "late" lights, or those required in the morning, on one side of Brock ton,

Edison Electric Illuminating Co.

. Jours, May, Manager.

the circuit, so as to avoidd necessity of reversing the current through the meters on one or the other half.

The lawrence Company contracted for "N" machines and afterwards requested me to supply them with a spare, their original intention being to use an old "R" as a spare. To do what you desire will require a few extra switches and an extra resistance box I think, but at this writing we have not worked out the exact plan by which we intend to operate the two small machines in a plant where "N" machines are used for the general running.

We have not, up to this writing, been able to get the cable, of which we sent you some samples, approved by the Board of Fire Underwriters. They have appointed a Committee, however, whose duty it is to look into the matter, and immediately we can get some action taken by them we will write you as to the matter.

Vory truly yours,

9.

1883-11-15

nunch mrs Jupa

November 15th. 1883

George H. Bliss, Esq. General Supt.

Chicago, Ills.

Doar Sir:-

Reclosed horswith please find statement giving the full particulars as to those dynamo machines maked for by you.

If there are any further details that you desire we will send them to you. We think that we can send them blue prints of the foundations in the course of ten days or so.

Very truly yours

Enclosure

El. St. - Foreign - France

November 15th.

3

J. F. Bailoy, Esq.

. Paris, France.

Dear Sir:-

Referring to cables elsewhere confirmed, I bon to inform you that I have cabled to the Societe Kleetrieque Edison,
Paris, stating that I have not get a man whom I can send to start
the Edison lamp Factory in Cormany. So many of our men have gone
to Europe that, in justice to our Home Company here and our manufucturing interests, it is imperative that we should keep what
roud men we now have to do our work in this country. We have a
groat deal of it and very few people to do it. It cortainly
seems to me that the lyry gactory ought to be able to supply the
man required.

Very truly yours

3

Socioto Industriollo et Commerciale Edison, Tyry-sur-Seine, Franco.

Doar Sirs:-

Referring to your favor of the 12th. October, I beg to give you below prices of the various Armington & Sies ongines.

I prosume the ten per cent royalty should be paid on the prices named,

Yory truly yours,

wovember 15th.

American Rell Telephone Co.

95 Hilk Street,

Boston, Mass.

Door Sirs:-

Noforring to your favor of the 18th, inst., we hege to state that the 1000 carbon buttons were shipped to you on the 18th, inst, will you please advise us whether you will require any more them them, inasmuch as we have to rig up specially to make them, and would like to have a number made new if you are liable to order any more within the next few months.

Very truly yours

I enclose you herewit! our bill for the 1,000 carbons.

November 15th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have looked into the matter of the engine shown to like Insull by you when he was in the same and I am confident that it is of such a character that it would absolutely be of no use to us in our business. It would therefore be useless for me to go further into the question, unless messers. Smith, Myers & Co. get up an estirely different engine. From the explanations given me by Mr. Insull, I do not wender that they could have built the engines so much cheaper than those we now use. They are of a very cheap character and would by no means answer our purposes.

Vory truly yours,

Lai

E. Buchol, Esq.

101 Conti Street,

New Orleans, Ial

Doar Sir:-

Your favor dated October came duly to hand, but the picture referred to therein ded not arrive until a day or so back.

It affords me very great cleasure to acknowledge its receipt and to thank you for your very great kindness in sending me so charming a painting. It is very difficult to do justice to such a compliment and I therefore will not do so, but simply return you my heartfelt thanks for your very great kindness.

May I ask you to accept a copy of my photograph, which I sond by express,

with relation to the Phonograph, I have been so busy in developing my system of electric lighting for the past few years that I have been compelled to drop all other matters.

Very truly yours,

3

C. E. Spiere, Esq.

Schurray Stroot, City

Priond Spiors:-

We are going to have a "b" to-night, that is we propose putting the books in order up stairs in the library.

If you have nothing particularly to do, I think it would be a favorable opportunity for you to not information as to the missing volumes and duplicate sets and size greatly assist us, if you can favor us with your company. The performance will start in about eight o'clock.

Very truly yours

P. B. Shaw, Esq.

Williamsport; Ponna,

Doar Sir:-

I beg to acknowledge receipt of your telegram as follows:-

"hazolton contracts signed and forwarded to you via Rouding Express, together with check and draft for twent; five per contum. Fush the work."

I commutablate you on the speedy closing of these contracts, and can assure you that the work will be pushed ahead rapidly.

Our uperintendent. He flich, will be in Mt. Carael Monday, and as seen as he has started work there, he will go to Maxelton. I presume he will be in Maxelton about fucsday or Wodnesday.

Our meterial for Mt. Carmel is all practically ordered, and we are assured of such early deliverses that I anticipate that there will be no coley in the installation of this plant, and I have every reason to believe that the Maxelton work will go forward with the sume regidity.

Vory truly yours,

Barocher 13th

1000.

A. Stuart, Esq. Secty.

Cincinnata, Ohio.

Door Sir:-

Thave your favor of the 12th, inst., and in reply beg to state that it is impossible to send you an estimate for Cynthiana until we have the position of the central station lots.

The letter as to this sill so forward to you to-day.

We can do nothing with the new estimate for Piqua until you give us the exact size of the lot, and the information written for some days back.

Very truly yours,



November 16tl

C. E. Spiers, Esq.

23 Murray Street, City.

Meaend Spiors:-

Have you get a cut of Mr. Edison's are lamp? Proscott wants it for his book.

Vory truly yours.

3)

November 16th.

Hrs. E. Adoms,

160 Irving Stret,

Woodside, N. J.

by Dear Brs. Adams:-

Can you tell me the exact date that your late

husband first sailed for Englands we want to get at it in connection with some of our bisiness heroon telephone Quits

Yours yory truly,

November 16th.

Paul D. Dyor. Esq.

care A. Stuart, Esq.

Cincinnati, Chic

Doar Sirt-

Under separate cover we read you some of our special rejects, which we desire you to fill our for each town you can was.

Floace he careful to obtain as reliable information as you can possibly got in regard to local prices. We also wish you would note on this report the date you arrive in a town and the date you loave it.

Yery truly yours

S

November 14 ti

Paul D. Dyor, Esq.

New Orleans, La.

Doar Sir:-

Referring to your favor of the 13th, inst. with relation to the trouble at Careloville, Mr. Edison state that the fault was with the engine used. No cannot imagine how the local people at the property of the candle power with the impute or expect to bring the lamps up to the candle power with the impute or running at 1100 revolutions when 1500 revolutions is required. Retary engines generally take in steam at 100 lbs, and let it out at 40 lbs. Four horse power is all that is required.

3-1

November 16th

W. S. Andrews, Esq.

care Edison Electric Illuminating Co.

Dear Sar:-

The enclose herewith blue prints of the districts of Mangleton.
Tiffingend St. Carrol, together with plans of our central stations.

We desire you to some us a complete list of the electrical material required in each of these places. As gravely. Go forwards.

. .

November 16th.

Paul D. Dyor, Eng.

Post Office.

Now Orleans, la

Door Sir:-

I enclose you herewith letter of introduction to En

W. b. Boringer, of the In. Telephone co., ger Orleans, In., who is the montloman you are to now there.

Yery truly yours.

A. Stuart, Esq. Secty.

Cincinnati, Chic

Dear Sir:-

In accordance with the attached forms we send you under separate cover by some mail two blue prints each of Synthiana and Baysville. One of these prints is marked with the red circle, in which it is desirable to obtain options on lots, and the other one shows where we propose runnim our lines. We send you those latter in order that you may inspect them and if there are any difficulties which would provent our fellowing the course shown on some, we shall be glad to be advised of it. Purthermore if there are any additions which you wish to make or any portion of the districts marked that you desire to cut off, we wish you would advise us by letter to that effect, at the same time returning the charts which we send you.

We pursue this course in order that it may not be necessary for us to make more than one electrical determination for each place, as these determinations consume a great deal of time, which at the present moment we can but likely ill afford to lose. The date when you will receive the estimates for those places entirely depends upon the degree of prespiness which is used in

Cincinnati, Chio.

Staurt, Esq. Socty.

returning to us the information asked for herein.

yary truly yours,

November 16th.

cosrs. Dergmann a co.

202 Avenue B, city

Dear Sirs: - :

The bearer of this, or Bibler, has been encaped by us to take charge of the construction of our pole lines for village plants.

will you please confer with him as to any stock you may have on hand which capht be useful to us in this work, as I may possibly be able to take it off your hands.

Yours truly

SI

Royambar 16th.

3

Patrick & Carter,

Tolograph Instrument Makers, Philadolphia, Penna.

Dear Sirs:-

Can you possibly may be able that you made the first telephones for me, tenether with a copy of the order, copy of the bill you rendered me and where the telephones were delivered and any such information that aight suggest itself to you.

If you have copy of any drawings used by you in making the above referred to telephones, I should be glad it you could loan than to me.

Vory truly jours,

2aa

I refer more espendly to the carbon Telephone's

November 16th.

E. T. Greenfield, Esq.

41 Ann Street, City

Doar Sir:-

The bonrow of this, we Hibber, has been empayed by us to take charge of our line construction work for village plants. He Hibber informs me that he is acquainted with you. If you can give him any information such as your experience at Sunbury and Shamekin would suggest to you, I shall be much obliged.

Very truly yours,

SI

November lith

Charles T. Hughes, Feq.

Morgan House,

Poughkoopsie, N.1

Dear Sir:-

In accordance with the attached form we mend you under soparate ever by same seal two blue prints of Pounhkoepsie, gine marked with a red circle, within which it is desirable to obtain options on lets, and the other shows the course of our street installation. In relation to the latter, we sigh you to examine it very carefully, and if there are any obstacles which would provent our running the lines as shown thereon, we desire you to advise us of them by letter, also make any suggestions you may think desirable. Purthermore if you wish to add to the district or cut off any portion of it, we desire to be advised of the fact with accurate information as to alterations. We pursue this current in order that it may be messary for us to make only one oldestrical determination, which shall be final, as at the present time we are so pressed with work that we can very ill afford to lose time ever mughling.

Yory fruly yours,

Zalej

Roycabor lith

.

H. Ward Joonard, Esq.

eare Edison Sloctric Illuminating Co.

Brockton, Mass.

Doar Sir:-

customers connected, the number of lights they are burning, the amount of their bills, for last wouth. Those cullocted and uncollected. Also the amount of the romaing expenses of the station for last month and expected detailed information that you can give me, as I have gain, and again asked you. What I desire is a dotailed statement and not the general remarks to the effect that overything is running moothly.

Yours truly,

sales

November 17th.

N. C. Yost, Esq. Troas.

Edison Electric Illuminating Co.

Hazleton, Penna

Dear Sir:

I bog to enclose you herewith contract signed by mycelf for the crection of a ceptral station plant at Hamleton, Pa.,
and I have the pleasure to acknowledge receipt through Mn Shaw of
your check for 31,000, and the draft of your President drawn in
my favor at ten days sight for 34,171.10, the latter being accepted
by you on the 15th. November.

My Superintendent leaves here to-morrow night for Mt.

Garmol, Pa., and immediately he gets through there, which will be
about Tucaday, he will proceed to Hazleton and start the work there
keantime all our material has been ordered, and we will push the
construction of the station as Vigorously as possible.

Very truly yours,

By S. attorne

Enclosure.

November 17th.

P. B. Shaw. Kea

Williamsport, Penns

Dear Sir:-

I have your favor of the 10th, inst, enclosing two signed copies of the contract for the installation of a central station plant for the Edison Electric Illuminating company of Mazioton, also check of the Treasurer for \$1,000, and also a draft
drawn by the President and accepted by the Treasurer for \$4,171,10
payable the 20th, of this month. I have acknowledged receipt of
same to the Treasurer of the Commany.

Vory truly yours,

Day

h.

Straight Jino Engine Co.

Syraeuso, R. Y.

Door Sirst-

I have your favor of the 15th, inst, and note contents.

I will discuss the matter with Mr. Sweet on his visiting me here in New York. I have wired you this morning that I will see him any day that he may call upon mo.

Vory thaly yours,

20k

November 18th. :

John Do Lacy Duffy, Esq.

132 Wassau Street, City

Dear Sir:-

Referring to your favor of the 17th, inst., all we require is men to make make to scale here in our office from data already obtained by our agents outside.

Very truly yours,

Sl

Revember 16th. S

S. B. Eaton, Esq. Prest.

CITI

Doar Sir:-

We have your favor of the lith, inst., and can have the estimates you refer to made immediately we learn from in Markle the towns he requires canvassed.

Can you give us his address, as we wish to reach his by telegraph immediately, in order to give our canvasser, who is now in Madison, instructions to proceed into MacMarkle's servitorys

2au

November loth.

Frank H. Mc. Cormick, Esq. Prost.
Williamsport, Penna.

Dear Sir:-

Will you please have the certificates of stock due Mr.
Edison, under his basis of settlement with you, issued in his name
immediately the authorization of the increased capital is effected.
Of course of the Company decide to pay the cash instead, we shall
be glad to receive your Treasurer's check for the balance still
due.

Very trely yours

& J P.S

November 19th, 18th,

Gustav Soldan, Esq. Supt.

104 Guarck Street, City.

Doar Sir:-

Mr. Matchinson reports to me that he is very mixious to get some more 50 light machines. Will you please hurry the orders you have for them, namely, the balance of the ten on an old order and the ten which I recently ordered from you.

We are also urgently in need of 200 and 300 light machines.

I enclose you horawith an order for ten 200 light machines, and would urge you to get the requisitions quickly as possible. I am urgently in need of at least five of them.

Yours truly,

rs truiy,

November 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Guorck Stroot, City.

Doar Sir:-

Will you please alter my order No.26, for ten 200 light dynamos, to five 200 light dynamos, as I find that will be quite sufficient for present purposes.

I enclose you herewith a further order (No.26) for five 300 light dynamos.

I may state that every dynamo ordered by me to built has now boom placed. This remark applies equally to the orders sometime proviously placed and those sent to-day, including the above, and you will therefore see how necessary it is to push them through quickly.

Yours truly,

Vember 16th o

The Armington & Sims Co.

Providence, R. I.

Door Sirs:-

I beg to enclose you herewith all the letters we have received recently from Shamekin with relation to the engines there. I received a second telegram restorday stating that a second engine had broken flown. The rejects from our man do not seem to agree exactly with the statement of the case as shown in your favor of the the lith, inst.

Will you ploase return this correspondence as soon as possible, and oblige,

Very truly yours,

Jan

Enclosure.

November 19th.

W. S. Androws, Esq.

lawrence, Hass.

Doar Sir:-

Referring to your favor of the lith. Inst., we will supply in lord with the spare dynamos at the earliest possible moment, but at this writing it is impossible to say how soon we will be. We are straining every nerve to turn machines out, but when I tell you that the patterns were only completed the last of last weel you will understand that it will take a little time before we can have the machines ready to deliver to in lord, inascuch as we have Isolated Company orders of from three to four months standing, which take precedence of everything else.

Very truly yours

Al



ovember 19th.

W. S. Andrews, Esq.

caro Edison Electric Illuminating Co.
lawrence, Hass.

Dear Sir:-

I think we ought to pay an Parry a salary just to cover his boarding expenses, or I might pay his board and a nominal salary bosides. Will you please lot my know her useful he is to you and we will pay his assordingly?

I have another man who is by no means ar well posted as Forry, but whom I should like to send out to a station to learn the practical works of I was transmit that you might well do this if you were to put him say under noubleday at wall River.

Will you please let no know if you can make any disposition of his services. The property and all the experience that he has get has been in Goorel Street for the last few months, and before he went there he was with Kosers. Verity, of london. I funcy he was their bookkeaper, but he has a liking for mechanics, and I should very much like to make use of him if only a layer to Mr. Johnson. Of course if you was use his and find out afterwards that he is of no use, we could tell him so.

Please advise us as to this at your early convenience.

DOGG TWO

.

1883-11-19

In addition to the Pall River, Tiffin and Nomburgh stalions, we have closed contracts formWindleton, Penna. 1,000 lights, Bellefonte, Penna. 100 lights and Ht. Carnel, Penna. 500 lights. You will therefore see that we shall need a good many men later on, and the more we can break into our work move at the smallest possible expense the better,

Very truly yours,

81

The Armington & Sims Co.

Providence, R. 1

Doar Sirs:-

Referring to your favor of the lith., I telegraphed you on Saturday to send an engine, with the same size pulley as that proviously sent, to Shamekin. I received a telegram yesterday from Shamekin stating that the second engine had broken down, and immediately wired you to some a man on to Shamekin at once. I have wired you this morning asking you to answer my telegram, as I am very anxious to knew whether the engine has been shipled and if the man has started, as I am very much afraid that our Shamekin plant would eque to a standstill, and this would be very disastrous. Every moment's delay in not sending your man there will cost us a great deal of money, as we are only able to run one engineous, which compels us to reverse the current through the motors and this prevents our getting any correct meter records.

Very truly yours,

Jac

Have since got your telegram varying engine

W. S. Andrews, Esq.

Lagronco, Bass.

Doar Sir:-

peforming to your favor of the lith, lest, to Mr Edison, he now instructs no to send you a copy of the questions and incore but wishes to improse upon you that this is solely for your use.

Yory truly jours,

81

A relet November 20th.

J. J. Jonks, Esq. Managor.

Brockton, Hass,

Dear Sir:-

Will you please inform no if you think we can take our exports away from Brockton right away. If not, what date would suit your convenience?

Yours truly,

2-ale

November 20th.

John Mullon, Esq. Treas.

Shamokin, Fonna.

Doar Sir:-

We best to draw your attention to the fact that there is still xxx a balance of \$3,000, due to us under our contract with you for the erection of the plant at Shamekin. It was the understanding of our Er Insull when in Shamekin last that the balance due at that date should be settled shortly from the proceeds of sales of \$3,000, of bends. We have only so far received a remittance for \$1,000, on this account, and would esteem it a favor if you would oblige by sending us a check for \$2,000, to balance, so that we can close out our account,

Very truly yours

2ak



loyombor 20th.

W. D. Rich, Esq.

Bush House,

Dellofonte, Penna.

Dear Sir:-

Wo are notified by our frought broker that he has securd for us the following rates:-

For Tiffin, Ohio, via the lackswanna Foot Preight Jino, first class, 50 cents, second class, 40 cents, third class, 35 cents, fourth class, 27 cents. Each of these rates is subject to a rebate after the arrival of goods at their destination, as follows, first class, 0 cents, second class, 4 cents, third class, 3 cents, fourth class, 2 cents. To Newburgh, via the New York, West Shore & Buffalc, first class, 20 cents, second class, 40 cents third class, 10 cents, fourth class, 10 cents, and carload lots are to be billed at 7 cents for hundred pounds, and anything less than carloads, but not less than 5000 pounds is to be billed at U cents. To Mt. Carmel, Fenna, via Philadelphia & Reading, first class, 40 cents, second class, 32 cents, third class, 25 cents and fourth class, 18 cents, upon shipments in carloads we can obtain a rate of 14 cents, The Thundred pounds, but on account

1883-11-20

of the Trisgular manner in which it is necessary to be sent forward voice not expect to be able to take advantage of this rate of 14.2 cents.

Please soo that material sent toyyou is hilled in accordance with the above and advise us of any excess.

Yery truly yours,

The T. A. Edison Constn. nept.

Bv

Control of the contro

November 20th.

W. Preston Hix, Esq.

388 West Wain Street,

louisville, ly.

Doar Sir:-

We have your letter of the 17th, inst. in reference to the option on the let chosen for central station purposes in louisyille running out in ten days.

We enclose herewith map of Joursville, and beg to call your attention to the fact that if we can obtain a lot in Alocks 40, 41 or 42, which are marked in redclose pencil, it will reduce the cost of the street installation by about \$20,000. The most desirable joint for this lot is where we have made a star in red. You will see that it would be economy to pay a good price for a lot in this locality, considering the heavy expenditures which will be avoided by doing so.

Kindly let us hear from you as quickly as possible as to what you can do in the matter, and oblige,

Vory truly yours,

The T. A. Edison Constn. Dept.

iv A

November 30th.

Hossrs, Farris & Robinson,

Trust Co's Building,

Bartford, Conn.

Dear Sirs:-

Mn Mastings referred to us a lotter from you a few days ago in which you requested a memoranes of the installations we have made and the assumt of each contract. We beg to attach a statement giving the information you desire. The first column shows the nominal capacity of the plant, the second the number of lights included in the district wired and the third the total amount of the contract.

Very truly yours,

The T. A. Edison Constn. Dort.

Ву

SI



November 20th. 3

Spencer Bordon, Esq.

P. O. Box 3311,

Boston, Mass

Door Sir:-

In roply to your favor of the 10th, inst., which through pross of work has romained unanswered until to-day, we beg to say that we were fully aware of the fact that we had not included spares in the estimates for Norwich and Natick. You will notice that the boiler caracity necessary for the operation of these plants is 92 horse power and we have supplied in each case a 14 2 x 13 ongine to do the work. By reference to the tabulated formula of indicated horse power at different initial pressures of steam in the Armington & Sims catalogue, you will find that at 350 rovolutions per minute the maximum caracity of the engines above referred to is 202,8 herse power with 100 lbs, pressure. In practice we usually employ about 120 lbs, pressure, and, in order to satisfactorily and officiently operate a plant of the size of the one in question, the speed of this engine need not On this account there is so much margin left that we consider it unnocessary to furnish a spare engine.

1883311

In relation to the dynamics, the machines which we propose supplying are of the type known as the T machines, and their maximum capacity is 507 lights. By this you will see that the actual especity of each of these plants is 1,134 lamps, instead of the unit we employ, namely, 1,000. In the case of Norwich the conductors are calculated to carry 1,216 lights, as shown on the estimate, and in the case of Natick they have been calculated at 1,000 lights. In each of these instances the number of lights embraced by our street installation is the maximum number that can possibly be burning at any one time. In order to tax these conductors to their fullest extent it would be necessary that every light in every building in the whole the covered by them should be lift and this is an event which will never take place,

In relation to our proposed buildings for contral station purposes, if at any time it is desirable to increase the capacity of the plant it can be done by making additions to the buildings, but inasmuch as our experience has proved to us that large and expensive buildings (expensive in comparison to the size of the plant) are derogatory to the acceptance of our estimates, "we considered it advisable in each of these cases to design a building just sufficiently large and convenient for the working

the extends and thousand out of the standard o

maximum capacity is 309 lights. By this war

the plants we proposed to install at Norwich and Natick. If in either case the local people, with whom we have to anal, desire a larger building erected, weewill furnish plans and esti-

Trusting that this explanation will satisfy points in question, we are,

Sponcor Morden, Esq.

Poston, Pass.

Doar Sir:-

We beg to return herewith letter and sketch addressed to be Bodskinsen by Mr. D. S. Bates.

In commenting upon the exec, we would say that it is impossible for us to prepare such a man as we can estimate from unless we have a chart drang to scale. We should like to obtain a chart of Webster such as we have described, but we do not feel that we can no to the expense of having a survey made of the town in order to obtain it. As a general thing in places of this size there is a city engineer, and from this gentl-man we obtain the chart we require at a cost which has never yet extended \$25., even in places of the size of fansas city. We shall be glad if you can suggest any way in which we can obtain the maps we have abled you for, and trust that you will favor us with an early response to this letter.

Vory truly yours,

Tho . A. Edison Constn. Dopt.

y



3.

My Dear Mr. Waterhouse:-

I loave here for Jondon on the 11th.

December, and shall be glad if you will kindly cable if there are any matters requireng Mr. Edison's Contrator attention prior to my departure, so that I can got them all in shape before I leave.

I thought possibly there might be some documents in connection with the amalgamation scheme requiring his signature, and it would be necessary for me to arrange to have them fixed up on their arrival here before I leave, otherwise they would, in all probability, have to remain ever until my return the ender January.

While in london I hope to do myself the very great
pleasure of calling on you, and will then give you some idea of
the progress of our lighting business in this country.

I remain, My Dear Mr. Waterhouse,

Very faithfully yours,

SI

Hovembor 20

Mosars' Arminoton & Sims.

Providence. R. I.

Dear Sirs:-

tare of.

When you are making shipment of our Nowburgh engines, ploase forward them by the New York & New England Railroad, as we have a special rate on that line which we desire to take advan-

Vory trul/ Yours,
The T. A. Edison Constn. Dept.

By

51

.

W. S. Andrews, Esq.

eare Edison Electric Illuminating Co.

Jawrence, Fass.

Dear Sir:-

We have your lotter of the 13th, inst., and have ordered the material you required.

In relation to the large copper wire. 45 inches diameter, we find that the Ansonia people cannot supply this for about three weeks. We are trying to get it elsewhere, but at this writing cannot tell how successful we may be.

In order to avoid a repitition of the delay which may take place in furnishing you with this material, we would suggest that you sendbus a statement of wire and other material for inside work such as you think it would be advisable for us to carry in stock. Ilease let us have this as early as possible, so that there may be no delay when material is required for the balance of the installations now in head,

Very truly yours,

The T. A. Edison Constn. Dert.

Бу

81

. S. Androws, Esq.

Lawrence, Hass,

Doar Sirt-

We bug to emclose herewith map of the district of hellefonte, together with plan of the central station which we propose erecting at that point, and wish you to send us information at the emplose possible moment in relation to what electrical material we will require for the inside of same.

Vory truly yours,

Thos. A. Edison Constn. Dept.

Ву

ne ?

Nevember 21st.

W. D. Rich, Esq.

Bush Fouse.

Bellefonte, Tenna,

Dear Sir:-

Referring to your arrangements with us as Superintendent of Construction, we beg to advise you that we have credited your account with the assumt of \$500. On account of the remuneration to be paid you outside of salary.

Flease adviso us what disposition you wish made of same.

Very truly yours,

Thos. A. Edison Constn. Dopt.

tor

4)

Hovember 31st

11340111011 23234

Colonel Goddard,

City.

My Doar Colonel Goddard:-

what evening can you spare to go into the question of bookkeeping for our local illuminating companies, "Acting which you so Fromised to do sometime back? What I would like to do would be to arrange a meeting with yourself, Hutchinson, Tate and myself, and I have no doubt that if you can make an appointment that the remainder of us can accommodate ourselves to your

Vory truly yours

St

Kovember 21st

3

Messrs. Malo & Wolcott,

39 Court Street,

Poston, Pass

Doar Sirs:-

Perferring to the correspondence you have had with in lowrey with relation to the suit Welch vs Edison, I beg to state that I have been trying to get at the whereabouts of Fr. Milton Adams. I now learn that he is in the fity of Mexico and will return to Europe via New York. I shall hope to advise you early of his return, so as to enable the necessary examination of him to take place in New York.

Very truly yours

Dela

Jelegroph

November 21st.

3

Cliver E. Lyman, Esq.

45 William Street, City.

Door Sir:-

Referring to your favor of the 15th, inst., I beg to state that I have not written any paper on Underground Telegraphic Systems. There is no reason whatever, except on the score of expense, why all wires operating electrical apparatus should not be underground.

Very truly yours,

Za

November 21es

Compagnie Continentale Edison.

Paris, France.

Doar Sirs;-

Referring to your favor of the 1sth. October, I understand that the papers in the Austrian suit have been sent forward to you semetime back.

Very truly yours

Zue

,

Auvember 21st. 3

W. S. Andrews, Esq.

lawronce, Kass

Doar Sir:-

Yours of the 30th, inst. to hand.

We yesterday ordered to be shipped to you some marine

I cannot may at this moment whom Conant will go to
Instruct. I am trying to get Lounard from Erockton to go there,
but I do not know, however, whether they can spare him from
Brockton yet.

Very truly yours, Thes. A. Edison Constn. Dept.

Dy

8-1

wovombor Blat.

The Armington & Sims Co.

Providence, R. I

Doar Sirs:-

Referring to your bill of the 20th, inst. for one No. 32, 8 2 x 10 engine, I beg to notify you that we do not propose at present to place the amount of the bill in question to your credit, inassuch as we are not at all satisfied that the trouble with the onerges at Shamokin is the fault of our people there.

If the cause of the failure of the engine is owing to the fault in the ongine itself, we shall not expect to pay for a new engine being sent to Shamokin. Lending the sottlement of this matter we will hold the bill.

Very truly yours,

2nn

W. S. Androws, Esq.

lawrence, hass.

Dear Sir:-

Referring to your favor of the luth, rast, we are going to have Grower test the sulpahot of zine such as sent to lawrence. We may remark that we ordered exactly the sense as that used by the Edison Electric Illuminating Company's down town station.

Vory truly yours.

Thos. A. Edison Constn. Dopt.

Ву.

51

kovember 21st.

W. S. Andrews, Esq.

lawronen, cass.

Doar Sir:-

I have your favor of the 20th, inst. as to short postage on the map sont you. I feel very much annoyed that such a blunder should have occurred in my office. Under separate cover the maps have been forwarded to you to-day.

I have written larry to-day stating that we will pay him \$12. For wook and his travelling expenses when ordered from one town to another. I think this will please him to start on.

The gentleman, whom I propose to send to Fall river, will leave here immediately we have a talogram from you on the subject.

Very truly yours,

Thos. A. Edison Constn. Dopt.

Hy .

November 21st.

Kajor Flood Page, Conoral Managor,

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue,

London, E. G. England.

Doar Sir:-

Your favor of the 17th, September came only to hand.

I have been unable up to this writing to send you the prices of our machines in consequence of the models not having been turned out until quite recently. I now send you tabulated scatement which will show you the prices, speed, size &c. of the various machines we are now building. It is very difficult to get up a sample installation such as you ask for, and I think you would do better to draw on the experience of the london Company

Very truly yours,

November 21st.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Dear Sir:-

four various letters as to Tiffin have duly come to hand.

We have delayed sending a wiroman to Tiffin in order to try and avail ourselves of a cheaper form of wiring, which we have not been able to do up to this writing as it has not been accepted by the Neard of Mire Underwriters. They have, however, the metter under advisement and promise to consider it and either refuse or accept our new form of wire. Meantime we have decided to send our wireman to Tiffin, and hope to be able to desputch him in the course of about three days. We must confess that we think you are in undue haste to get the housesexixxex vired in Tiffin, and we fail to see the middle for your extreme anxiety in relation to the matter. Our work at Tiffin will not be interfered with by the freet.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ву



Nowamber 21st

3

Societe D' Apparoillage Electrique,

8 Boulevard du Theatre,

Ceneve, Switzerland.

Doar Sirs:-

We have your favor of the 18th, October,

We hope to send you in the course of a week or so drawings of our 25, 50, 200 and 300 light dynamos.

We send you herewith statement of the speed and size of pulley of each of our machines we are now building, together with prices at which we are prepared to ship them P.O.E. New York City. We are propared to take any orders from you and construct machines and undertake to ship same about twenty (20) or thirty (30) days after receipt of order. If your orders are small it is highly probable that we would be able to ship the state of receipt of order. The reason that the catalogue of the Edison Company for Isolated Lighting contains so little about dynames is that it was issued at a time when my experiments in changing over our machines rendered it impossible for the Isolated Company to get at sufficient data to enable them to give proper information about the

1893-11-21

The Electric Tube Company does not publish any catalogue.

I will, however, obtain from them a pricelist and forward it to

you in the course of a day or so.

The other inquiries contained in your letter shall receive my attention within the next wook, and I will endeavor to answer you fully in relation thereto.

Very truly yours,

Rnelosuro.

November 21st.

P. B. Shaw, Esq.

Williamsport, Ponna

Doar Sir:-

I am in receipt of your favor of the ltth, inst.

covering contract between myself and the Bellefonte Company for the
installation of an electric light plant in Bellefonte. I have
also the draft of the President drawn in my favor on the Socretary
of the Company. I cannot act on this matter until I get a copy
of the estimate as amended. Immediately I get this I will

communicate with the Hembergroof the Bellefonte Company in relation
to the matter. Heantime ourboors will be pushed shead. I am
expecting that Br. Rich will be in Bellefonte either to-morrow or
the next day.

Very truly yours.

Jan

November 21st.

- 3

Socioto D'Apparoillago Electrique,

8 Boulevard du Thoatre,

Geneve, Switzerland,

Door Sirs:-

Referring to your favor of the 10th. October, I bog to state that the contract with Messrs, Siemens & Halske refers alone to Cormany. It is made between the Societe Electrique Edison of Paris and a Berlin Syndicate. I cannot understand how Messrs, Siemens & Halske can Interphenewith your business, as they have no rights whatever outside of Germany. I am now in course of negotiation with my Paris Company with a view to getting better protection of our mutual interests in Switzerland. The competition which the Paris Company have entered into against your Company's, sales is entirely unauthorized by mo, and I am doing all that is in my power to provent the same.

Very truly yours,

November 21st

G. W. Wilber, Esq.

Notel Woimmeister,

Atlanta, Ga.

Door Sir:-

We have your favor of the 17th, inst..

We cannot state exactly where you will go after you get through at Atlanta, but will let you know as soon as possible

Many thanks for your kind wishes in connection with my trip to Europe, but I shall be hore for two or three wooks yet.

Very truly yours,

November Blst.

W. S. Andréws, Esq.

care Edison Electric Illuminating Co.

lagrence, Eass.

Dear Sir:-

To beg to notify you that from this date you will be credited with a salary at the rate of \$3. For day, instead of \$4.50 as heretofore.

Very truly yours,

Thus. A. Edison Constn. Dept.

.

A A



November 21st.

W. S. Andrews, Esq.

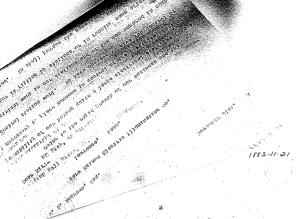
care Edison Electric Illuminating Co.
Jawrence, Bass.

Dear Sir:-

Owing to the rapid growth of our business and the possibility of our having quite a large electrical staff, we find in it necessary to place summent in Control of the electrical part of our central station work. We have decided to give you control of all electrical work in our stations and of the men engaged in such work, whether in fitting up stations or in running same after the bean started. We shall purgue the same course with relation to the interior of the station as that followed for some time past, namely, we shall look to you to communicate to us what is demirable each station should contain electrically, and also how the instruments Ac. shall be arranged.

It would seem to us desirable that you should not spend all your time in one place, but you should make such disposition of your men as to enable you to go from place to place and keep a proper oversight of the work.

Mr. Rich, as Superintendent of Construction, is now building Fall River, Mt. Carmel, Hollofonto, Hazloton, Tiffin and



Nowburgh stations. Immediately these stations are in condition to have the electrical part of the work done it will be necessary for you to start sume. You should also be on hand to start the stations when we are ready to light up.

At present our staff is as follows, Mr Conant, Mr Doubloday, Mr Leonard, Mr Cakley and, as my last letter indicates to you, Mr Perry. These centlemen will be under your direction, and we shall look to you to state exactly what disposition should be made of them.

We think it would be well, immediately you have started on Fall River, for you to repair to New York and consult with us in relation to the matters contained in this letter.

Of course we shall look to you to see that your staff works in unison with Mr. Rich.

Very truly yours,

Thos. A. Edison Constn. Dept.

Ву



Charles Matchelor, Esq.

Paris, France.

My Doar Batchelor:-

Your favor of the 4th, came to hand this

morning.

Edison states that he thinks very well of the idea of a 1000 light wire wound armature.

We have now sent models of the 23 and 50 light machines to Germany. This will give them models for the 21, 30, 100 and 400 light machines. I propose cabling and asking them whother they want model 200 and 300 light machines.

We were all delighted to hear that you thought of coming home. By letter of about two weeks back will have given you full information as to what we are doing here.

I could doubtless sell your Isolated steech at par,

Let am inclined to cable you asking whether it is necessary to do
this in view of Edison's authorization to draw on him for \$1,000.

I do not undorstand now whether you wanted \$1,000. or \$10,000.,
hopo it is the former, as money in the latter amount is very

Scarce horeabouts. I do not anticipate that I can get more than par for isolated stock, it is nominally quoted at 120 to 130, but atrictly onire nous I may state that it is a question whether the Isolated Company will pay their dividend this year, because their expenses are semething terrible, and it looks very much as if it is the old tale of bad management.

We have not yet been able to get a man to run the Armington and Portor engines, but as seen as we do so will send him forward.

Very truly yours

Royomber 21st. 3

M. C. Belknap, Esq. Troas.

Edison Electric Illuminating Co.

Highland Wational Bank,

Newburgh, N. Y.

Dear Sir:-

We bog to acknowledge receiption the 18th, inst. covering draft for \$0,500., being twenty five per cent due me under the torms of contract dated October 20th, 1883.

My ongineer will be in Nowburgh to-day to consult with the builders in relation to the building. We are pushing our street mains as quickly as possible, and will commonce shipping same meastine this work, and I as in hopes that our men will be in Nowburgh to lay the mains senetime next wook.

Immediately your building is well under way we can push our work very quickly, as we have the material ordered, and are simply waiting the finishing of the building.

Very truly yours,

attorney

Movember 21st.

Courge P. Bliss, Esq. General supt.

Chicago, Illa

Doar Sir:-

Again referring to your favor of the 14th. 1nst., I bente give you below copy of the memorandum received from im E. H. Johnson in relation to the trouble you complain of with the Automatic regulators:-

"I prosume this is due to the increased resistance of the magnet coil when heated. The resulty that occurs to me is to occasionally re-adjust the spring. I have not noticed any such action in our own."

Very truly yours,

Zun

November 21st.

A. A. Cowles, Esq. Secty.

19 Cliff Street, City,

Dear Sir:-

I have your favor of the 19th. November, and have the pleasure to enclose you herewith assignment of twelve and one half per cent of my antends with the Edison Electric Illuminating Company of Hollefonte, Ponna, I also enclose you copy of the agreement referred to for your files.

You emitted to send me the formal order for the wire, which heretefore I have been in the habit of executing.

Yery truly yours.

- 1

Revember 31st.

C. W. Cooke, Esq.

Post Office,

Grand Haven. Hich.

Door Sirt-

they named.

After you get through at Madison, Wis. please canwass Grand Mayon, Wiles, Mattle Creek and Tpsilanti, all in Michigan.

It would be as well for you to communicate with un John R. Markle,

1. 0. Mox 07, Detroit, Michi, an it is for his account that we are making the canwasses. Please canwass these towns in the order

Very truly yours,

lovember 21st

W. H. Dwelley, Jr. Esq. Treas.

Edison Electric Illg. Co.

Fall River, Mass.

Dear Sir:-

Your lotters and tolograms as to sending Groonfield on to Pall River came duly to hand, and we wired you last night that Fitch would leave this evening with one man and suggesting that you had better look up other men in the meantime. Of course the shorter the time that you keep Mr. Fitch in Fall River, the less will be the expense to yourself. I do not know exactly what you will have to pay for his services, but I presume it will be a small amount on ordinary wages and beard. However, I shall charge you whatever Greenfield charges me.

I am strongly of the opinion that your company should have nothing to do with the wiring, that is so far as the consumers are concerned. You know my vious fully on this subject, and I will therefore not trouble you individually.

Very truly yours,

Tinguadison Constn. Dort.

By

A

Inul it. Dyor, Esq.

101 Carondelet Street.

How Orleans,

Doar Sir:-

I enclose you herewith information as to part of the

territory that it is desired should be canyassed in ...ow Orleans.

Of course you will canvass considerably outside of the area named.

Yours truly.

November 23nd, 3

H. M. Doubleday, Esq.

care Edison Electric Illg. Co.

lawronce, Mass

Dear Sir:-

I send you berewith a book of questions and answers, and would draw your attention to the fact that it is marked for private use only. You must not show this book to anybody whatever without the permission of this office. I also return you your answers, on which you will notice a few rewarks by Mr. Rdison. We says that the answers are very good, and that you can post up with the further assistance of the book sent you to-day, and Mr. Andrews. Flease return your answers when you have looked ever Mr. Edison's remarks.

Vory Truly Yours,

Thos. A. Edison Constn. Dopt.



Danbury

November 22nd

Hossrs. Marris & Robinson,

Trust Co's Building,

Hartford, Conn.

Dear Sirs:-

We have your favor of the lath, inst.

We were unable to answer it by return mail as the writer was out of town. You will find in the Danbury estimate under the head of "Starting Station" 350 lamps are put in at sixty cents each, but since the estimate was made the price has been reduced to fifty cents. The customers do not pay for the lamps. They are paid for by the Company, just the same as the Company would pay formed in the running expenses. In fact lamps are part of the running expenses. The local company will have to pay firty cents for the lamps, which is the same price as the Lamp Factory sells them to all its customers. The lamps you refer to are the sixteen candle lamps, and those are sold at forty cents. Our lamps will average upgards of 900 hours life, but no exsolute guarantee is given as this. As a matter of fact they average considerably where them 000 hours, and we set this time of burning in order to be within the mark.

We sent you yesterday all the information we have about

Brockton.

noenidos a nieros. .erezo:

,brultand,

The Newburgh Company was formed sometime ago and the plant is now being erected. Withinnthe last week we have closed contracts for Bellefonte, Penna. 800 lights, Mt.Carmel, Penna. 500 lights, Fazleton, Penna. 1,000 lights, and these plants are now being erected. Besides these we are running a plant at Tiffin Chief for 1,000 lights. We have in all six central stations now in the course of construction, besides Sunbury, Shamokin, Lawrence and Brockton, which have been running some considerable time now.

Thos. A. Edison Constn. Dopt.

Þу

November 22nd

Charles T. Hughes, Esq.

Morgan liouse,

Poughkoopsio, N. Y

Friend Fughes:-

Again referring to your favor of the 15th. inst.,

Mr. Edicon says that he does not like the idea of lighting Rondout and hingston in the way you distribute. I would suggest that talk

to Mr. Rdison about the matter the next time you see him.

Very truly yours,

Ties. A. Edisen Censtr. Dept.

True

A Y

Bergmann November 22nd.

Messrs, Bergmann & Co.

25.5 Avenue B. City

Dear Sirs:- .

Have your received from Hilan two sockets? We have a letter from them in which the following occurs:-

"We have sent to Bergmann # Co., upon the suggestion of Min-Bailoy, two sockets out of the 500 of the last shipment. We have found them so roughly made, besides the general defects of the new model of key sockets, that we will not take them without a reduction in price of not less than fifty per cent."

Very truly yours,

November 22nd. 1983.

David Wilson, Esq.

545 West 33rd, Street, City,

Doar Sir:-

Will you ploase make one set of zines for the 200 light machine of the motal you would propose using, providing we gave you orders for our zine castings at 5 4 cents per pound. What we want to get at is the quality of the motal, how we can work it and its tensale strength.

Please lot us have this as early as possible.

I enclose you formal order to cover it.

Very truly yours,

The Edison Bachine Works,

November 22nd;

- -

Demas Barnos, Esq.

20 Park Row, City

Dear Sir:-

Referring to your favor of the 7th, inst., my opinion on the application of electricity to cars is that the motor should in most cases be placed directly under the cars, and that for small reads, such as street railreads, clovated railreads in New York or the underground railread in Lendon, electric locometion is the coming method. I think that after one read has been operated in this country electrically, so as to gain actual experience and a chance to surmount what difficulties and objections may be found, that success would be comparatively easy.

Yory truly yours,

Jak

ovomber 22nd,

J. H. Gerry, Esq.

bock Box 50,

Elgin, Ills

Dear Sir:-

Referring to your favor of the 10th, inst., there is no substance that can be used in the place of carbon pencils for an are light that will not wear away.

Very truly yours,

Tac

November 22nd

3

James Harris, Esq. Secty.

Bollefonte, Pa.

Dear Sir:-

I have your letter of yesterday's date, together with plan of building. The size of building you give us is 20 x 76. The size of building we have allowed for is 28 x 40. The extra amount telegraphed to Mr. Shaw for which we increased the 500 light plant to 800 lights entirely approximate, and on we find that we can erect a brick building for you of 26 x 40. instead of the frame building, as called for in the estimate. We had no idea when Mr Shaw tolegraphed for the additional estimate that he proposed to close a contract on the basis of it, or wo should have written a letter reducing it by several hundred dollars. We cannot put a building up of the size that you name for the price given in our estimate. We understood from Mr. Shaw that this whole matter was settled, and that our plans and estimates were accepted, and we have consequently instructed our Superintendent, Mr. Rich. to build the building 20 x 40, and have: this day telegraphed him to construct a brick building instead of a frame building. The building is so arranged that at any time it may be thought advisable to therease your plant it can be done

by onlarging the building economically.

the Bick is now in Bollefonte and will no doubt see you about these various matters, but his instructions to put up a building 26 x 40 are absilute, and if you require any alterations, I would magniful you to advise me of it immediately, but I would warn you that if such alteration is requisite it will very materially interfere with the installation of the plant.

Very truly yours,

Thomas A. Edison Constn. Dept.

ŀу

November 22nd.1883.

Davenport, Treney & Co.

Jersey City, 'N. J

Dear Sirs:-

Poferring to my interview with your Mr Davenport this A. M., I beg to inform you that our Superintendent, Mr. Suldan, will call on you and give you an order for on zine base as a sample. I wish to got at the quality of the metal, how we can word it and its tensile strength. After we have worked your eastings in our shop, we will then settle about giving you an order. I am compolled to pursue this course of a bid I have from the men who is now making our zine bases.

Vory truly yours,

The EdisoneMachine Works,

November 22nd.

S. Elliott Rec

Dosigner & Builder of Special machinery.

Dear Sir:-

I have your favor of the 17th, inst. Nr Jackson worked for me a year or more, and I believe him to be a thoroughly
first class mechanic, and especially need on experimentallwork.
He is possibly rether prouddof his ability, perhaps too much so,
but still I found it very easy to get along with him. I always
found him sober and reliable.

Vory truly yours

2ar

November 22nd.

Thomas P. Conant, Esq.

Weavers Mational Hotel,

Shemokin, Ponna,

Doar Sir:-

Will you kindly ask Mr. Ployd if he would undertake wiring jobs at MT. Carmel and Bellefonte, providing we can get the work for him. We might find it convenient to use his men at those passes. Toylding he as willing to give attention to the matter.

Very truly yours,

Thomas A. Edison Constn. Dopt.

Ьу

November 22nd.

Y. S. Androws, Esq.

Jawrenco, Mass

Doar Sir:-

Your favor of the lith, inst. came duly to hand.
We cannot understand that there should be trouble with either the
marine glue or sulphate of zine, as we order exactly what is used
at the central Station. We are, however, arranging to have the
sulphate of zine tested by Grower at Seweck Street, and with relation to the marine glue, Mr. Chinnock has promised to ship same to
"you. I note what you say about clear glass bettles and will
attend to it in the future. I will have the fixtures you refer to
sent on. I will harry the variousmaterial you ask for and I can
assure you that we invariably do that anyway.

Vory truly yours,

Thos. A. Edison Constn. Dept

Ву

SJ

Personal,

November 22nd.

W. S. Androws, Esq.

Lawrence, Mass

Door Sirt-

I wish you would pay partisular attention to the movements of Jounard. Judging from the postmark on his letters he m
must spond a good deal of time on boston. Certainly after you
leave lawrence he should stay there at nights and in the day time.
The fact is I do not feel very much confidence in him, and I wint
to know whether I am justified in my opinion or not.

Yory truly yours,



Movember akind.

. D. Rich, Esq.

Bush House,

. kellefonte, renna

Door Mir:

I bor to enclose you letter from Mossrs. James Harris & Co. giving prices of material at Hellefonte.

I telegraphed you this A. M. instructing you to put up a brick building in place of the frame building originally contemplated at Bellefonte. I also enclose you a blue print of the Bellefonte station.

I have a lotter from James Barris, the Secretary of the Bollefonte Company this morning, in which he mildly suggests that we put up a brick building 26 X 70 for the same price as the one we proposed putting up. I have written him that it was my understanding that the estimate and arrangement of the station had been accepted, and that you were instructed to put up the building 26 X 40, and I have suggested that he should see you about the matter. What they want to get is an alloyway down the side of their property. This you can arrange by having the front of the building 26 feet. Of course if Mr Harris objects to putting up the present building, you had better telegraph for instructions.

2

am going to sond a wireman to Tiffin Saturday or Sunday night. All your material is ordered and well under way.

The Pall River steam piping was shipped from Philadelphia yesterday

I wired you this A. M. stating that there was trouble at Brockton, owing to the leakage of steam piping at the joints.

I trust you will be able to sain someone to fix this prior to your roturn East.

If you propose coming to New York on your way from Penna.
I will most you at the office anytima except Saturday evening.

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ву

 \mathcal{A} .

Dina Lamina

Novomber 22nd.

John T. Perry, Esq.

caro Edison Electric Illg. Co.

lawrence, Mass.

Door Sir:-

I ber to advise you that free this date you will be credited with a salary at the rate of 3122 for week, and that should we require you to leave Lawrence to go elsewhere, we will any your travelling expenses. As soon as you become more valuable in our work we shall hope to pay you better, but meantime the salary named above will cover your expenses of boarding, and inassauch as we pay your travelling expenses, you will no longer be under any personal expense, which you were under in learning our work. Hoping this will prove satisfactory to you, I remain, Yery truly yours,

Thos. A. Edison Constn. Dept.

Ву

8

November 22nd.

3

Societe Industrielle et Commerciale Edison, Ivry-sur-Seine, Prance.

Doar Sirs:-

Referring to yearblaver of the 12th. October, I bg to give you below prices of the various Armington & Sims engines purchased by us:-

I prosume the ten per cent royalty should be paid on the prices named.

Very truly yours,

Tell

Goorgo W. Soren, Esq.

care Porter, lowrey, Soren & Stone.

3 Broad Street,

Doar Sir:-

I beg to enclose you herewith check for \$381.03, boing balance of the amount due Judge Forter, Mr. Stone and yourself in connection with the sale of the Colonial light latents to Edison's Indian & Colonial Electric Company.

> Will you please acknowledge recipt, and oblige, Vory truly yours,

. J. Sprague, Esq.

care Edison Electric Illuminating Co.

brockton, Mass.

Doar Sir:-

I have your favor of the leth, inst., for which accept
my thanks.

I think you will find that in other stations arrangements have been made to put the indicators as far away from the dynamos as possible.

Your remarks about steam piping shall have the attention of Mr. Rich.

With relation to Pall River, we have work themes for you have in New York, when you get through at Brockton, in which you can be more valuable to us than at vall River. We regret not being able to semply sith your request in this connection.

We will send you the information about the spare dynamos
in a day or two. It will, however, be some little time before
the Brockton Company can get small machines.

Very truly yours,

Thos. A. Edison Constn. Dopt.

· D...

November 22nd

. 3

I. W. Serrell, Esq.

140 Massau Street, City.

Dear Sir:-

I have your favor of the 15th, inst., and in reply beg to state that I do not see that I is necessary to add anything to the arguments in interferences A to I and No.1. The argument seems to cover everything and to be quite full enough.

Very truly yours,

Jac

Nevember Stind

E. H. Jord, Esq. Treas.

Lawrence, Mass

Dear Sir:-

I have your favor of the 17th. inst., but I have been unable to answer it until this morning, as I was not at all sure when I should be able to ship the machines to you. I am hoping now to be able to ship the machines senetime next week. I fully recognize the importance of your having them and I will not keep you waiting one moment longer than I can help.

Very truly yours,

Thes. A. Edison Constn. Dopt.

A

ovember 22nd. 3

E. H. Jord, Esq. Treas.

Jawrence, Mass

Dear Sir:-

Referring to your favor or the 16th, inst., 1 have annwered you elsewhere stating that 1 hope to be able to send you the machines for your central station semetime next wook.

The 200 and 300 light machines which you require for leolated business you can have about ten days or two wooks after the machines are sent you for your central station.

Thos. A. Edison Constn. Dept.

Вy

3

N. Stilwell, Esq.

Monlo Park, N. J

Dear Sir:-

will you please have the doors of the office, laboratory, machine shopsand other buildings, which it is not absolutely necessary to have access to, nailed up, and a fresh lock put on the doors that it is necessary to use. I should think the simplest way to do is to have the same lock put on all the doors you require to open, and have one key to open the whole of them.

While Alfred Swanson is working for us, he is entitled to have access to the laboratory, machine shop and engine room, but after he gets through his work of course he should give up the key. Forhups the beter would be for you to open the door for him every day and lock it up at night, but this is a matter on which you can suit your own convenience. What we wish to accomplish is to prevent all unauthorized people from getting into the luboratory.

Yours truly,

SI

3

essrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

will you please have a test made of the battery cell that we sent down to you semetime are.

I onclose you patent. Please roturn the patent with report as to test. We want this immediately.

Yours truly,

SJ

Enclosure

Battery !

Hovember 23rd.

A. A. Cowles, Esq.

19 Cliff Street, City.

Dear Sir:-

I am promised a test of the battery in the course of a day or so, and will send it down to you immediately we get it.

Yory truly yours.

November 23

.

Frank S. Marr, Esq. Troas.

Edison Elec. Ill minating Co.

Sunbury, Fenna,

Dear Sir:-

Referring to your favor or the luth, inst., I beg to return you herewith the plan of Subbury indicating where you want the extension of your lines made. Will you please mark on the plan the maximum number of lights for use on this extension and their position, so that we can calculate what size the conductors should be.

Do I understand that you are wanting some of the new kind of wire. If so, I will sond it to you, as I have some in stock.

Vary truly yours,

Thomas A. Edison Constn. Dopt.

Ву

}

Frank S. Harr, Esq. Treas.

Sunbury, Fenna,

Door Sir:-

Since writing to you this morning your letter of the lith, has come before us. It has been mislaid and we must applorate for the apparent neglect in not replying to you before.

The price of the new form of emble is furty two cents a pound. I have quite some of it in stock, which I ordered in order to get the first lot made. We are getting excellent results from it, and think it is the best thing you can use. If you will give us some idea of the size of the wire you want, we can then send you sufficient cable for your purpose.

Again apologizing to you for our neglect yours above referred to, we remain,

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

F. J. Sprague, Esq.

Brockton, Mass.

Dear Sir:-

When I was in brockton I arranged with you to have a photograph made of the building. Has this been done? If not, when will it be done?

Very truly yours,

W. S. Andrews, Es

Lawrence, Mass.

Poar Gir:-

I send you herewith duplicate blue prints of the stations at Bellefonte, Mt. Carmel, Maxluton and Tiffin, and shall be glad if you will sketch on same the dispusition of the switches Sc., as suggested in yours of the Adnd. For the future I will

send two copies of blue prints of the central stations.

Very truly yours,
Thomas A. Edison Constn. Deut.

Bv

'Spencer Borden, Esq.

Sass.

Dear Sir:-

. Referring to your favor of the 21st. inst., we are very much surprised that you should have altered our estimate for Natick. If you have no objection we would prefer that you should leave us this privilege. We consider that the Norwich estimate is complete in itself and does not require any alteration. There thore is a margin of engine capacity and a margin in the dynamos, we do not think it at all necessary to put in a spare. You must remember that we are putting for a 1,000 light plant exactly the same engine that we use for the 1,000, and we also sond to the station extra parts of such machinery that it is possible will break down. We do not think that we should leave it to the local people to say what they want in the way of a plant. We consider our experience in this connection a great deal better

Very truly yours.

Thomas A. Edison Constn. Dept.

Novombor 23rd

Judgo J. F. Bunn.

Tiffin, Chic.

Dear Sir:-

We have your favor of the 19th, inst.

Our material for wiring has been shipped to-day, and our set Isaac Walker, who has chargeof the inside wiring, will be in "liftin in all probability Tuesday or Wednesday mext to man the work there. We think that you will find that that will be in planty of time for the starting of the station."

Vory truly yours.

Thomas A. Kalson Constn. Dept.

Hovember 23rd: 3

W. S. Andrews, Esq.

ronce. Mass

Dear Sir:-

We have your favor of the 21st, inst, and will take your advice and keep, a supply of chemicals on hand,

Very truly yours,

Thomas A. Edison Constn. Dept.

y - <

A. Stuart, Esq. Secty.

Cincinnati, Ohio,

Doar Sir:-

Referring to your favor of the leth, inst., I certainly think that efforts should be made to put plants in some of the town already canvassed, before anything is done with relation to canvassing other towns. The expense of the work is considerable and I should not care to go should making any more canvasses unless Major Eaton instructs me to do so.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

Bv

e dangda .

Chroles T. Hughes, Esq.

Morgan House,

Poughkeopsie, N. Y

Door Sire

I do not at all like your Rondout-Kingston scheme.

I do not think that we have get far enough ahead to follow it out.

Thomas A. Edison Constn. Dept.

E

Ŀv

Bowenhor 23rd.

C. E. Chinnock, Esq.

207 Fearl Street, City,

By Dear Chinnock:-

This will introduce to you Br. A. S. Bovis, who wants to got as much information as possible in the course of a few days at the Central Station. By Bovis is going out for as in connection with our central station construction work, and any facilities you can rive him to post himself will confer a favor upon.

Yory truly yours

LI J

November 24th.

Major S. B. Est on, President.

GS Fifth Avenue, City.

Dear Sir'-

to beg to acknowledge receipt of your favor of the said, inst. instructing us to make canvasces and estimates for Polyoke and New Redford, Mass.

We hope to be able to cond a canvascor the commonce this work within a few days.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

S J

В

November 24th.

Major S. B. Euton, Prest.

45 Fifth Avenue, City.

Door Sir:-

We have to acknowledge receipt of your favor of the agree, inst, instruction us to convess the following towns in Pennsylvania:-

Wellsborough, Hauch Chunk, Pottsville, Pottstown, Janeaster, Lewisburgh, Eilton, York, Union City, Wilkesbarre, Scranton,

Very truly yours,

Thomas A. Edison Constn. Dopt.

B*y*

November 24th.

John Mullon, Esq. Troas.

Shamokin, Ponna.

Dear Sir:-

We are in receipt of a letter from wears, Borgmann

6 Co., in which they quote the following extract from a letter
received by them from you:-

"Under contract 250 temperary fixtures, shades, holders and suckets were to be furnished. Only 240 were shipped or received by us."

We have before us at the present measure the statement which was presented to our Mr Insull, when he went to Shamokin to settle our affairs there, and which he was teld specified the material received on account of the centract between us, and under the heading of "temporary fixtures" you enter only 200 and give us credit for that humber. In your letter to Pessrs, Bergmann & Oc. you now acknowledge having received 240, and ask for a credit for 10 temporary fixtures, insanuch as the centract called for 250. We might here state that we held the receipt of Un W. M. Douty, the President of your Company, for 350 temporary fixtures, sockets and shades complete, but insanuch as you have only paid for 200, notwithstanding your statement to Messrs, Bergmann & Oc. that you

Recoived 240, we cannot understand why it is that you ask us for a credit for 10 more. Although we accepted your statement of the material received as being correct, it would not appear to be the case, judging from the above; in the instance we have quoted we are satisfied that it is not.

Yery truly yours,

Thomas A. Edison Comstn. Dept.

Mossrs. Rabcock & Wilcox,

30 Cortlandt Street, City.

bear Sirs;-

In making shipment of the boilers you have on hand for us at the present time, will you floase forward them as follows:

| Hazolton from Elizabethport, via Philadelphia & Reading,
| Boilefonto, via Ponnsylvania R. N.

We have secured special rates over these lines.

Are you putting the names of the different companies on these boilers, as usual? If you have not done so in the case of the boilers already shipped, will you kindly fut the names of the Companies on the boiler you have on hand. For instance, the Bollefonte boiler should hear the name "Edison Electric Illuminating Company of Bellefonte", and the others should have the name of the Company in the same way, according to the town it is intended for.

Very truly yours,
Thomas A. Edison Conetn. Dept.

b)

The Armington & Sies Co.

Providence, R. I

Dear Sirs:-

In relation to the 14 x x is engine for Nowburgh, which will be ready for shipment within a few days, will you please sand it to Hazleton, Penna, instead. The Newburgh station will not be ready for some time, and we do not wish to be obliged to "store more material in Newburgh than is necessary, and we can use this engine at Hazleton as soon as it is roady. Floase send it via the New York & New England, Steamer "Maryland" and lehigh Yalloy R. R., as we have secured special rates on this route, which we wish to take advantage of.

We have secured special rates to Bellefonte, Fenna. via New York & New England and Fenna, R. R., and when you are shipping to that point, please take those routes.

Very truly yours,

Thomas A. Edison Constn. Dept.

Ву

November 27th

James Barris, Esq. Secty.

bollefonte, Fa.

Dear Sir:-

I shall be plad if you will give me an order for any 230 lumps, so as to have lawps on hand at starting the station. Those lamps we shall hill to you at exactly the aumo price as if they were bought from the lamp Puctory direct, namely, 30 conts, and the only object I have in asking for the order is so that we shall have the right to order lamps forward at such time I may find it necessary when they are required.

Yery truly yours,

Thomas A. Edison Constn., Dert.

. . .

Rovember 27th.

F. J. Sprague, Esq.

- Brockton, Mass

Dear Sir:-

We have your favor of the 22nd, Hovember.

We have put some of the lamps with the wire in the center upon a test at 64 candles, and find that they have just as f good lare as the regular lamps, which proves that the platina practically makes as difference.

horgann is getter along nice; with the twelve indicators, and we will send some forward to you do soon as they are completed.

Very truly yours,

Thomas A. Edison Constn. Nept.

Ви

Roycemer 27

d. S. Andrews, bag.

Bear Siri-

Referring to poors of the Sand. Inst. yeu can by conferring sich ir. Tick himself arrange to have the feedera prompte into a central station at points mustable to your self. I all taking up the question of chemicals for and so trying to make those a little sector than they have been.

Very truly yours.

Movember 37th.

W. S. Andrews, Pag.

". " Dear Sir:-"

Referring to your favor of the 24th.

Roy, 7 think the object you speak of, morely, being advised of the progress of br. Pich's work, will be best done by your amaunicating with him.

Yery truly yours.

.1..

Novomber 37th.

W. S. Androws, Esq.

Lawrence, Lass.

Doar Sir:-

Referring to your favor of the 23nd, inst, we have talked over with he Edison what your title should be, and would suggest "Chief Electrical Engineer." How does that strike your It is better than "Electrician". You know electricians are in no great repute with he Edison as a rule.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

Бу

kovember 37th.

.,

ir. F. S. Laar.

Sumbery, Pa.

)car Sir:-

Referring to fours of the Edrd. inst., are there no other lights on the extension for precess putting up besides the 50 mentioned in the end of extension. Shall we only istimate for 500 of individual our copper so as to early more lights in the future? If he, state the proposite masser.

Yory truly yours,

. C. Belling, Esq. Treas.

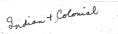
Edison Electric Illumination Co.
Highland Mational Hank,
Memburga, M. Y.

Doar Sir:-

We enclose herewith revised plan for the central station building to be arrected at Nowbursh, and we would impress upon
you very strongly the necessity of having the work done in strict
accordance with this plan. Any deviation from it, however slight,
it may appear to you, may seriously interfere with our urrangements, and we will have say that we will not hold ourselves responsible for any defect in the internal arrangement of the station,
should the same be caused from our plans not having been accurately
carried out. We write you thus strongly on the subject, as with
us if is a vital point, and trusting that you will see that our
requirements are not by yours contractors, we are,

Yory truly yours, Thomas A. Edison Constn. Dopt.

Бу





Movember 28th

Major Flood Fage, General hanager.

Edison's Indian & Colonial Electric Co.

4 & 6 Throgmorton Avenue.

Iondon, E. C. England.

Door Sire-

We have a letter from Mossrs, Droxel, Morgan & Co. asking for further documents, and which we have handed to them for transmission to Iondon.

We cabled you vestorday as follows:-

"Tube Company supplied material absolute price contract. You should remit immediately comply our understanding Extremely surprised your delay. Will mail detailes:

The Tube Company's material was bought by us on an absolute contract, and they are not in the habit of supplying us with thoughtfullertost, and it has been our rule to accept their bills right along. Where an absolute figure had been given on a cortain amount of work, they accomedated us by giving us a detailed bill, which, as above stated, has been sent forward,

We cannot consider this, however, a sufficient justifi-

for your holding your remittance. We bought this material for you, hald for it and shipped it without any profit whatever to cursedlyes, and solely asks courtesy to you, and hance our request for an immediate resistance.

My Frivate Secretary, Mr. Insull, will be in london about the 20th. December, and will call upon you, and any information you may desire as to our business he will be able to give you. W. H. Dwolley Jr. Esq. Treas.

Vell River, Mass

Doar Sar:-

Referring to your favor of the with. inst., I cannot tell whether the small pair of dynamos will be reasy by the time you mention or not. Even if they were I think that we should althoughty run the large engine. In fact we should run both of them, as we should want to get the whole of the plant in good running order. before the period is up for us to hand it ever to your company. I cannot see where the great waste of power exmes in in running the large engine, and even if such were the ease, I would remind you that themselves and even if such were the ease, I would remind days, and it can therefore be hardly a matter of interest to your Company whether we have to run the large or small engines during that period. As the Corel Communical will be any other than the conditions.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Ru

W. J. Jenks, Esq. Kanager,

brockton, Gass.

Dear Sir:-

Referring to your favor of the 24th, inst., we beg to state that the books and forms, which weepropose furnishing have been delayed in consequence of the absence from the city of Col. Coddard, with whom we are very anxious to confer before settling on the final forms. He has promised to No into it at the first opportunity, but as he is going to do it as a favor to us, we of course cannot press him to do so at any time that it might inconvenience him.

I think that the best thing that you can do is to go chould and use your judgement in the matter, and when we get our forms out we will give you the option of taking them or not.

With relation to Er Sprague, I find that I shall require him in New York. When the small dynamos are ready so can send some one, probably from Fall River, to put them up for you. I cannot give you at the moment the figures as to the proposed exchange, but will do so as early as possible.

Yery truly yours,

Thomas A. Edison Constn. Dept.

Вy

November 28th. 3

G. W. Wilbur, Esq.

Hotel Weinmeister,

Atlanta,

Doar Sir:-

We have your favor of the 25th, inst., and are glad to hear of the progress you are making.

I have sont a check to Mr. Magnus V. Miles as requested, and have written to lyons that if he cares to come on here, I can set him at work. I will advise you later as to where you are

Very truly yours,

Thomas A. Edison Constn. Dept.

Theodoro N. Vail, Esq. General Manager,

American Bell Telephone Co.

95 Milk Street.

Boston, Mass.

Dear Sir:-

I shall be glad if you will send me a specimen of the Inertia Carbon Transmitter you now issue, having the new form of lettering with "Edison Carbon Telephone" across the box.

Be kind enough to attach to the transmitter a certificate staing that all your transmitters are now issued in that form,

I wish to use this in London in negotiating with the Bnited Telephone Company, who I am anxious should follow the same course as that adopted by your Company. If you can let me have this before Docember 5th., I shall feel obliged, as I wish to send it to London by the hand of my Private Secretary, who sails immediately after that date.

Vory truly yours,

Tak



"Cashier."

Cornenia Bank.

215 Bowery, City.

Dear Sir:-

I onclose you herewith the information requested as to the Edison Electric light Co., The Edison Co. for Isolated lighting and the Edison Electric Illuminating Co. of New York.

The Light Co. has a controlling interest in the Isolated Co., owning Co. the Isolated Co., owning Co. the Isolated Co. as the Jight Co. has called a 20 per cont interest in the Ilaminating Co.

The paper that we have submitted to you for discount, and which you have kindly obliged us by so doing, was that of the Edison Co. for Tsolated lighting. This Company's business is to install electric light plants in mills and factories, and it obtains its license to do so from the Edison Electric light Co., which controls it.

The Edison Electric Illuminating Co. of New York supplies light on a motor in the district bordered by Wall, Massau, Spruce Streets and the Bast River.

Mr. Edison relations to these dompanies is that of manufacturer. He supplies them with dynamo electric machines, lamps and electrical sundries. Our main customer is the Edison Co. for Isolated Jighting, who take a large amount of material from us right along. Whe Edison Floetric Illuminating Co. has its plant creeted, and consequently buys very little from us at the present time. The Edison Floetric light Co. is simply a patent owning organization, who do nothing beyond selling licenses to use their patents, and they also defray the cost of in Edison's experiments in connection with any improvements or inventions he may get up on his present system of electric lighting.

Resides the above Mr. Maison acts as a general contractor for the installation of electric light central station plants. Our modus operandi is as follows:

A company formed in some town gets its license from the
Edison Eléctric light Co., the local company requires a plant
creeted, in order to enter into the business of selling light,
or in other words, the Company with the local gas company for
business, and Mr. Edison himself undertakes the contract to creet a
plant for such a local company at a given contract price. He
does this work by permission of the Edison Electric Light Co.,
who are the sole owners of the patents.

Any further information that I can give you I shall be glad to or if you care to make an appointment, I will come down to

1883-11-28

soo you and explain matters further to you, as it is our wish that you should be fully posted in relation to the matter.

Very truly yours,

Thomas A. Edison Gonstn. Dept.

ı, y

Enclosure.

November 28tt

. 3

Messrs, Ecrris & Robinson, Es

Martford, Conn.

Dear Sirs:-

Referring to your favor of the 20th, inst., I do not at all believe in the scheme you propose. By experience is that if we depend upon other peoples believe and engines, our lights are not satisfactory.

Yery truly yours,

Thomas A. Edison Constn. Dopt.

James Harris, Esq. Secty.

Pallefonte, Penna.

· Doar Sir:-

We bog to confirm the addition of \$200, agreed apon by yourself and our Kr. Rich to be paid as in consideration of increasing the size of the building. Said payment to be in addition to the amount agreed ajon in our contract with you for the proction of your central station plant.

Very truly yours,

Thomas A. Kdison Constn. Dept.

H. Ward. Leonard, Esq.

Lagrence, hass.

Door Sirt-

We have your two favors of the sith, inst., which do not explain to us the reason for your wanting to draw \$100. the asked pointedly for an explanation from you, as we wanted to know whether we were in error in your accounts. Will you please let us know.

we must confess

We have your new form the use for which we do not under-If you have any new forms or anything else new, will you . please let your ideas flow in the direction of this office and not to Mr. Jonks or any other manager of local companies. We wish to have the privilege of deciding what is the best form to use, and we are very glad to have any suggestions, but we wish to pass upon thom before they are communicated outside.

I send you by this mail a book of "Questions & Answers". which may give you a great deal of information. This book is for your own personal and to be shown to anyhody.

. I shall be glad to have from you such a report as you gave us from Brockton as to the number of lights burning &c. Please sond your answers to the questions here.

Very truly yours, Jau J

November 26th.

C. P. Lyons, Esq.

Center Street,

Dorchester Station,

Boston, Mass.

Dear Sir:

Br. 6. w. Wilbur informs me that you would like to have a position as canvasser with us. If you care to come on immediately we can send you out to work.

Very truly yours,

Thomas A. Edison Constn. Det.

ву

Hovember Zoth.

Mossrs, Markle & Hall,

l'. 0. lock Box 57,

Dotroit, Mich.

Dear Sirs:-

We have your favor of the 27th, inst., and in reply, boy to may that we will see that Eattle Creek is convessed after trand Navon, and will leave Niles out as suggested.

We have been compelled to withdraw Er. Cooks from your territory temperarily, but he will return there inside of two weeks Yory truly yours,

Thomas A. Edison Constn. Dept.

Вy

November 25th.1063.

W. P. Dwelley Jr. Esq. Treas.

Pall Ravor, Mass.

Dear Sirt-

We have your favor of the 20th, inst., and very much recret that the second of light machine has not been shipped, but we had trouble with the eastings, which when delivered to us proved derective and we had to have a new set made. Our Supt. precises now to ship the machine by Saturday or wonday at the latest. The various articles you refer to as missing shall be supplied.

Very truly yours,

The Edison Machine Works,

1: ++



hovembor suth.

3

A. A. Cowles, Esq.

. 16 Cliff Street, City.

My Doar Sir:-

We have had the battery which you sent for test duly tested, and give you below our tester's report:-

Internal resistance, one ohm: strength, 1.18 volts: current, 1.18 amperes. When put on short circuit it runs down yory suichly.

Our testor reports that he does not think at all well of the battery.

Yery truly yours.

2ac

November 25th.1663.

Gustav Soldan, Esq. Supt.

1 104 Goerck Street, City.

Dear Sir:-

I am getting into very serious trouble indeed at the long dolay in connection with the shipment of the 330 light machine for Pall River. I really think that the matter should have been hurried a little more than it has been, and I must insist that this machine mask be shipped to Pall River immediately. Unloss we are a little more prompt on our shipments we shall get a very bad reputation. It must now be six or seven weeks since I asked that the machine be get ready.

Floase the shop, as I must telegraph to wall River this morning

I may say that the Fall River Company are prevented
from lighting a mill and getting a large payment on a big contract
in consequence of our delay, and they naturally feel the opposite
of matisfied.

Very truly yours,

The Edison Machine Works,

Ву

.

U. H. Painter, Asq.

Box BU,

Washington, D. C

Bukund Paintor:-

Di you over got a letter from me asking for a map

of the United States: Our office is starving for one.

Cannot you manage to get one for us?

Very truly yours,

November 26th.

M. Stilwoll, Esq.

Monlo Park. N. J

Dear Sir:-

Referring to your favor of the 20th, inst., I wired you to let Mr. Claudius have a key of the laboratory. So long as he is at worl there as a member of Mr. Clarke's staff, he is entitled to a key.

Yery truly Juns

لگر

Rovember 26th.

P. B. Shaw, Esq.

Williamsport, Penna.

Doar Sir:-

Mr. Edison insists that you telegraphed him instructing us to canvass Carlislo, Ponna. I have no record of any such telegram in the office, now do I recollect ever having received one. I have a telegram for you telling us to canvass Wellsborough, and we hope to send a canvasser there kenday or Tuesday at the latest. Will you please let me know at your early convenience whether you telegraphed any one else, as he may have heard of it through other channels?

Yory truly yours,

. .

November Suth.

William Schwenk, Esq. Prost.

Mt. Carmel, Fenna.

Dear Sir:-

Referring to your favor or the sith, inst., I think that it would be very poor policy on the part of your Company to undertake to do any viring itself. Our experience is that in such cases the local company has a very great deal of trouble with the companers in collecting their bills, and we find it the best policy to have an outside party do the wiring of houses in the same method in which this is done at Shamekin. I am trying to arrange with for Ployd to do your wiring at Ut. Carmel. I think this would be the most economical thing for you to do. Ployd is the man that does the work at Shamekin. No is within easy reach of Mt. Carmel, and is connection with the Shamekin work should be able to handle the work pore communically than a local man at Mt. Carmel could, if they you have no education to the work boing done by Ployd, and my only object in suggesting him is an stated above.

Very truly yours,

Thomas A. Edison Constn. Dopt.

ну В

Movember 38th.

.

N. Stilwell, Esq.

Menlo Fark, N.

Doar Sir:-

in Claudius reports that the clock has been removed from the laboratory and taken down to the house at Henle Park. This clock is the property of the Edison Electric Jaght Co., and in Claudius is responsible for the same. The clock should be sent hack impediately.

Yours truly.

July

O. Stratton, Esq.

35 Oliver Street,

Boston.

Doar Sir:-

Referring to your favor of the 27th, inst., I do not know where you can buy the duplicating ink you refer to, but I have some in stock that I am not at present using, and shall be glad to lot you have same at cost if you will lot me know how much you want.

November 25th.

F. J. Sprague, Esq.

Brockton, Mass.

Doar Sir:-

Please let us knew at your convenience how your friend, who is at the Ereckton station with you, is posted on our work. Is he capable of taking care of a station? Also has he a sufficient mechanical knowledge to allow of his fitting up the interior of a station? Also please let us know his name and how we can reach him, us we want to see about putting him on our electrical staff. Also what was his experience before he went to Breckton

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ba

81

November 25th.

F. J. Sprague, Esq.

Brockton, Mass,

Door Sir:-

Will you please arrange to return to New Yor at the earliest possible moment. You should leave things so that Mr. Jonks can permanently get on without any assistance from us. It is ouite time wexignification to run thinks by themselves.

Yery truly yours,

Thomas A. Edison Constn. Dept.

B:

10

Hovember Atth.

3

George H. Bliss, Esq. General Suit.

Chicago, Ills.

Dear Sir:-

Referring to your favor of the 20rd. inst., will you ploace lot me have a minute account of your various troubles with the automatic regulator, and I will andonyor to give you a remody for some.

very truly yours,

aa

I have Johnson working on

Charles Batchelor, Esq.

Paris, Franco.

My Door Datchelor:-

Will you please let me have an explanation of the enclosed, which appears in the Defect Rook for November 24th.

"Extract of letter from Pr Hennis, at Milan to Mr hatchelor. Cet. 28. 1652 - "The Armington & Sims ongines work budly. We soldes can run a night without changing thom off once or twice during the evening. It seems impossible to keep them to the work, and up to new it takes just twice as much oil that a "Forter" does.

We have had another accident with a Forter engine by breaking the crank rin. This makes two pines that we have broken and I find that both rines were derective, and that cracks were in the steel when rut up.*

Very truly years,

November 28th.1883.

Goorgo H. Bliss, Esq. Goloral Supt.

Chicago, Ills..

Doar Sir:-

We have your various letters making complaints about defective armstures.

In "1" armsture Mc.110, A we found a piece of a knife blade sticking between two commutator bars. This certainly was not done in our shop, as it would have been apparent before the armsture loft the shop, as the armsture was tested before we sent it out.

"k" No. 105, A was shipped at a time when we were changing Superintendents, and this may have caused the trouble, as we cannot place on anybody the responsibility of shipping the armature referred to.

Vory truly yours,
The Edison Machine Works,

hovember Zuth.

C. H. Gooko, Esq.

lost Office,

Williamsport, Ponna

Door Sir:-

when you get through at Williamsport you are to go to Battle Crook, Rich., after that you will probably have to canvass Hillsdale, as Hearrs, Earlie's Hell have decided to drop out Milos, but they will however advise you.

Very truly yours,

Thomas A. Edison Constn. bept.

November 28th. 3

The Armington & Sims Go.

Providence, R. 1

Dear Sirs:-

We desire to jut another fulley on the U 2 2 10 engine now at the property of the prosent machine now attached to the engine referred to.

Very truly yours,

Thomas A. Edison Constn. Dept.

Fovesbor 29

I send you by this mail a may of

C. H. Cook, Fsq.

Dear Sir:-

Williamsport from which you will gather where we propose running our tains in that city. The canvass ous sade according to the eld rules of the Edison Electric Light Company, and is, in our opinion very defective. We want you to make an entirely new canvass of Williamsport and to take more territory extending boyand headens street. You must of course be very careful to take in the whole outside where we now propose to run our mains and as much more as possible. This work should be done by you as promptly is possible, and each day you should send forward the result of your provious nights work as we are to plot the canvass as quickly as possibly and can do this to better advantage if we have daily reports from you. It is also very important that you should conduct your work without letting the local people know the object of your visit as so propose closing the contract on the old canvass and desire this new canvass made for our own information. The importance of getting through this work rapidly you will recognize when I tell you that we expect to close the William sport Contract on Londay next and start our work there, whereas we will

be thanke to order our copper until so have completed the convass that you are about taking and shall have made a new determination on the oculs of same.

Yery sruly yours

Thomas A. Fdison, Construction Department,

36

lovember 30th

E. H. Johnson, Esq.

202 Avenue E, City

My Dear Johnson:-

I wish you would look into the trouble with the automatic regulator, with relation to which you will find several items from Chicago in Defect Book, 24th, Notember. If you will give your immediate attention to this matter you will obline,

81

El. St. -



November 30th.

Comitato per le applicazioni Bell' electricita sistema Edison in

Milano, Ttaly.

Gentlemen: -

Referring to your favor of October 4th., we beg to enclose you copy of a lotter which we have just received from Messrs Bergmann & Co. The statements contained therein are perfectly correct and your request for a reduction in the price of not less than 50 per cent is very unreasonable. If sockets were sont you from Bergmann & Co. such as you send a sample of it was an error thich could be rectified by allowing you, as Borgmann & Co. suggest, the difference between the price of the two sockets, namely, 10 cents. Those sont you were not roughly made but simply a socket which we use for factory work. We cannot undorstand how there can be so much trouble with them inasmuch as we are using the same secket here right along. The information you ask regarding other matters has been sent forward to you and the various material requisitioned for by you has all been ordered. by private secretary, Mr. Insull, is going to Furope carly in Dec-

and when in Paris he hopes to get a settlement of the outstanding account against your Company. It is uncertain whether he will be able to get as far as Filan. If he does not he will represent our views to the Paris Co. I shall feel very much disappointed if he comes back without a complete settlement of our outstanding claim against you inasmuch as we have had to pay the total abount and have by no seems received reimbursement for

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Ore atmost bouledno etm. organ

of and on a right reductor to transfer research throughpy. Transis and comes on a locator all distances that the properties of the properties of the first transis.

ak aoelbi sabibka situtatuato ittaa taatse.

Wessrs. Marklo & Hall.

P. O. Hox 97.

Dotroit, Mich.

Dear Sirs:-

Your favor of the 2th, inst, was received this morning. We will send Mr. Cooke or another canvasser back into your
torritory within the next few days.

Very truly yours,

Thomas A. Edison Constn. Dopt.

В¥

Edison Cons

keyember 30th

3

John P. Fogers, Pa4.

Boston, kass.

Dear Sir: -

Peferring to your favor of the 20th inst., if you will give me the name of a stationer in Boston who would carry a stock of duplicating ink, I would arrange with him to supply it.

Very truly yours.

2al

Hoverson Stah.

A. Stuart, Fag.

Door Sir:-

Peferring to your favor of the 28th., % nave only just get your map of EMEXERIER Chillicethe Claished.

I not send you same by this sail under separate cover and shall be shed if you will get me central station lots within the area marked. If shall also be glad if you will have the emclosed special report willed up and returned at the earliest possible moment. I do not think that this town would stand more than an about light plant. If you will return the map with control station lots indicated and also the special report, I will push through an definate in the shortest possible time.

Very truly yours,

Thomas A. Udison, Construction Department.

Hoyombor 30th.

J. J. Harmer, Pag.

Leipziger Strasse 90

Berlin, Cortagny.

Dour Sit: -

ber.

Your favor without date came to hand yesterday. I still disser it at length within a day or so. Ty Secretary, Er. Insull, will be in London the latter end of Boschoor. He hopes 5. to get to Serlin and sill try to do some pusiness sith your company. Will you please advise him of your covenents. Its address in London will be

S. Ynsull, Jr.

31 Surton Crescent,

hondon, W. C.

England.

He will probably arrive there about the 20th of Decem-

Very truly yours.

2ak

Poyember 30

Bessrs dermann & Co.

Centlomen: -

We have a telegram from his Walker at Tiffin in which he says that you have quoted 15 per cent to a Church Committee at Tiffin as the discount on fixtures whereas his Shaw told the Committee that your discount was 35 per cent. It. Walker asks us which is correct and I have sired him that the discount quoted by you is correct. Is it not possible dr you to willow here than 15 per cent on a good order for fixtures?

Very truly yours,

Thomas A. Farson, Construction Department,

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5-4

13

F. R. Upton, Esq.

Dear Sir:-

I mog to enclose you letter from Compagnic Continentale Pdison. Fr. Eddson has requested me to take this matter in hand and whilst in Paris to open a negotiation with the Compagnic Continentale on the following basis:

We to have the right to sell image to any of their lidomneous at such prices as we may consolves desire to quote to them
but to pay the compagnic Continentale a royalty of one cent a
lamp on all lemms so sold. The Compagnic Continentals to undertake not to sell lemms obstants of their territory. This applies pursicularly to Farland. Will you please let me have your
views on this subject in writing, so it is an important matter and
I will to be in perfect accord with you in anything I may do in
Paris.

Very truly yours,

81



Nov. 30th.

A. Srmart, Pag. Seaty.

Dear Sir:-

Peferring to your favor of the Blat. inst. we found on Er. Incell's return to Ken York that we had already made 11 determinations in order to get the contract for Tiffin so we thought we sould give Tiffin a little rest, and that is the reason you have not had any further determination. I roturn you he ewith br. Sunn's lotter with some personal notes of he. Edison thereon which will give you the data on which to reply to that contlemen. With relation to lighting the streets of Cynthenia this would be dealt with in precisely the same manner as lighting the houses. If our mains ran through the streets we would just make a connection to a fixture on a pole, but inassauch as our mains as a rule run through the alleys se should be compelled to put up special pole lines which would really represent so much inside wiring. If street lights are required it should be so indicated on the Cynthania mag whon it is returned to us so that we can allow for the main carrying them in making our daterminetion. We would not include in our estimate the running of Apole lines unless you so desire. We could however make a supplementary estimate to cover this point. It certainly would

facks considerable difference in the estimate but how much I cannot tell until we get the above data from you. Our method is to calculate our mains to carry a cortain amount of current to supply lights in the residences. If they are to supply lights in the streets as well they must energ so much more surrent. There our mains run through the main streets we would attach our lamps to the same as above stated. Where they do not we should have to run special poles.

23

Very truly yours,

Thomas A. Edison, Construction Department.

hovember 30

A. Stuart, Faq.

Dear Sir:

Peferring to your fevor of the 20th.

inst, your statement which you mend us does not agree with that furnished by br. Dyor. Have written to Ker Orleans to him asking him to check your statement, and if he has made a mistake in the statement rendered to us by the we will impediately honor your shock for 7100.

Very truly yours,

Thomas A. Pdison, Construction Department.

Hovember 30th.

3

C. E. Chinnock, Esq.

237 Pearl Street, City.

Dear Sir:-

Messrs. Phemps, Bodge's Go. are very anxious to have about fifty lights installed in their office.

will you please investigate their lass hours and advise me as to the matter, as I should like to oblige them in compliance with the request of my friend Mr. Gowles, of the Amsonia Brans & Copper Co. Probably you could give them a less number of lights than they ask for, which lights would yield a good average lass hours.

Very truly yours,

Jan

December 1st, 1883.

Mossrs. Macphorson, Willard & Co.

Bordontown, R. J.

Doer Sirs:-

I wired you yesterday that your forgings were made of poor from in consequence of a complaint received from Mr. Soldan, our superintendent. We left the Bridgeport Forge people and ordered our material from you mainly on account of the Bridgeport from being somewhat poor. As the prices from each of you are practically the almost yould suggest that you see Mr. Soldan the next time you are in town and then come up and see me about the matter.

I am fully aware that the orders you have in hand were only received on the 23rd. November, but if you can hurry them you will sreatly favor us.

Very truly yours, The Edison Machine Works,

ny 8

Middletown

December 1st.

H. H. Hoffmann, Esq. Prost.

Ohio Edison Electric Installation Co. Cincinnati. Ohio.

Doar Sir:-

We have the pleasure to acknowledge receipt of your favor of the 28th, ulto, enclosing contract for the erection of a central station plant at Middletown, Ohio for 300 lights, contract amounting to \$13,695.1

To return you herewith the contract, which you will notice is signed "The Raison Electric Illuminating Company of ... The name Middletown should be filled in and the soal of the Company attached.

We also send you herewith a duplicate copy of the contract duly executed by us.

Under same cover we received your draft on the United States Bank of Sew York for \$2,130, and draft on Francis R. Upton for \$1,942,93 we will send you a receipt for these remittances as soon as Mr. Upton accepts his draft.

We would be glad to receive a list of the stockholders of the Middletown Company, so as to give us an opportunity of inquiring into its stability and financial standing. This will be

1883-12-01

Documber 1st.

unnecessary, however, it you will give us an undertaking that your Installation Company guarantees the contract with the Widdletown Company.

Our understanding with Mr. Stuart was that those contracts were to be made with the Installation company itself and not with the local companies.

Very truly yours,

Thomas A. Edison Constn. Dept.

P)

S

Enclosure,

Gruerunceri.

8

December Brd.

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A. A. Cowles, Esq. Secty.

19 Cliff Street, Cit;

mar Sir;-

T onelose you herewith three notes dated the 12th.
November, one for \$4,939.10 due March 15th., amother for \$4,088.90
due April 15th. and another for \$5,007.73 due May 15th. in settlement of the open account with you as arranged.

Will you please acknowledge receipt and oblige,

. Very truly yours,

Thomas A. Edison Constn. Dept.

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W. S. Androws, Rsq.

Fall River. Mass.

Door Sir:-

We send you by express half dozen copies of the Engine and Boiler questions,

Any ongineers applying for a position should answer these questions, and you should see that they do this while you are present. Do not allow them to take the questions here, as we do not want them to have any outside assistance in answering our questions.

Very truly yours,

Thomas A. Edison Const. Dept.

12...

81

December 3rd.

W. S. Andrews, Esq.

Fall River, Mass.

Door Sir:-

We have decided that hereafter we will pick the resistance lamps used in the test banks. The volts may be low, but as you propose to have the banks separate from the line, justo afford a load for testing, this will not metter. We can tone the candle power down with a field resistance. Here you any objections to this course?

Vory truly yours,

Thomas A. Edison Const. Dept.

12...

A.

li. H. Noffmann, Esq. Prest.

Ohio Edison Electric Installation Co.

Cincinnati. Ohio.

Doar Sir:-

Again referring to your favor of Movember Joth., we bog to acknowledge receipt of \$3,492.33, being twentyfive per cent of the contract between the Edison Floetric Illuminating Company of Middlotown and myself and dated, said contractinging for the installation of a 500 to Incandescent Light plant at Middletown Ohio.

Very truly yours,

Thomas A. Edison Constn. Dept.

Goorgo M. Hopkins, Esq.

137 Tomple Court,

Citv.

Buaboer Sir:-

I have your favor of the lst, inst., and is reply bor to same that the trouble is I have an arrangement with hr.

R. N. Dyor, who has his office, here, which arrangement I am bound to hold to. I will see what I can do to bring you into some of our law cases, and it would not be a bad idea for you to remind me of the matter from time to time.

Vory truly yours

.

J. C. Reiff, Esq.

care Wearishoffer & Co.

54 Exchange Place, Cit

By Dear Reiff:-

Referring to your favor with relation to the Sayfort suit, I think the best way is to restione the matter just as long as possible, in fact carry out the same policy that has been carried out right along, meantime see what kind of a settlement can be made.

very truly yours,

Deles

December 3rd.

.

J. C. Roiff, Esq.

care Woorishoffer & Co.

54 Exchange Place, City.

Myabear Reiff:-

I have your favor of the 1st.

The trouble with you is shon you undertake to do a thing you never follow it up or come to see me to find out what progress is being made. I should think that instead of vaiting patiently man that you would come up here and see me. The next time you are passing you had better look me up and we will talk the matter over. I have no idea of breaking any promises to anybody.

Very truly yours,

Dar

December 3rd

Messrs. Armington & Sims Co.

irovidence, R. I.

Doar Sirs:-

We have your account of Movember 30th., handed to us by Mr. Moore,

We have no bills for the items of the 47th, and soth.

October of Sit. onch. With relation to the item of November Sird.,

30.47, for man sent to Receiten, we hardly think that this expense is charmoshle to us, and have therefore abstained from crediting your account until we hear further from you. As to the charge for engines sent to Shanokin 5775., as we wrote you, we do not think that you should charge us with this engine until it is clearly established that the troubles at Shanokin were our fault or the fault of our men. It is Shappens that the engine has never yet reached Shanokin.

Doducting those various amounts there remains a bulance of \$7,592,00, for which we enclose two notes dated respectively the 12th, and 25th. November for \$3,781.43 each. These notes fall due on the 15th, and 25th. February. Trusting that these arrangements will prove satisfactory, and requesting you to return the enclosed vouchers signed, we beg to remain.

Very truly yours,

S

December 3rd.

iber ard.

Isaac Walker, Esq.

care Judge J. F. Bunn,

Tiffin, Ohio.

Dear Sir:-

We received the enclosed letter from Mr. Bunn this Please return it after perusal.

You will, as he suggests, use the paragon cable wherever possible, providing the customers are willing that it be used.

We have a note referred to us by Messrs. Bergmann & Co.
in relation to more material asked for by you. All your communications as to business matters should be addressed to this office,
and anything you require we will send on to you, but you must not
send your orders to Messrs. Bergmann & Co., as they simply refer
your communications to us and we have to send them a requisition
instructing them to fill your orders.

We should also like to receive from you a report as to what you are doing at least two or three times a week.

Very truly yours,

Thomas A. Edison Constn. Dept.

Rτ

Docombor 4th.

E. H. Jord, Esq. Treas.

Lawrence, Bass.

Doar Sir:-

The two spare machines which you have asked for will be shipped from here on Wednesday. You will require a 40 driving pulley on each side of your U 2 x 10 engine and it should be set to run at 321 revolutions. To you propose to have the necessary alterations to the Ux x 0 engine made yourself or do you want us to take charge of it? Planse let us know at the earliest possible moment, as we wish to have the machines running for you as quickly as possible, also give us an order to cover the necessary regulatures, switches and electrical work.

Very truly yours,

Thomas A. Edison Constn. Dept.

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1883- 12-04

December 4th. 1883.

E. H. Jord, Esq. Toas.

Lawrence, Hass.

Dear Sir:-

We enclose you herewith blue prints of sketches which the Construction Repartment not up for use in their contral station work. The 200 light machine runs at 1,300 revolutions and the 300 light machine runs at 1,200. We also enclose you statement of the speed *c. of each machine we now make.

We will have the brushes you ask for sent forward in

Vory truly yours,

The Eduson Macline Works,

Documber 4th.

Hossrs, Farkle # Fall,

P. O. Pox 27,

Detroit, Mich

Dear Sirs:- -

Yours of the 1st. inst. to hand,

our Er. Cooke leaves Williamsport for Battle Crock either hande

to-day or to-morrow morning. Trusting that this will sat-

Very truly yours,

Thomas A. Edison Constn. Dept.

Ly &

Frank Maios, Esq.

care Wordester & reet Go.

Worcestor, Mass

Dear Sir:-

We have your favor of the 30th, ulto, and in reply would suggest that you we to wall Siver, when you have time within the next week or so, and call on our En Andrews and have a talk with him. On receipt of his report in relation to the matter we shall then be able to inform you whether we can offer you a position. If we do so, your reaumeration to start with would be very low, as it would be sensetime before your services would be of any great value to us.

Mr. Androws' address is V. S. Androws, care Edison Electric Illuminating co., Fall River, Mag.

Yory truly yours,

Thomas A. Edison Constn, Dept.

H. H. Leinter, Esq

Box 88.

Washington, D. C.

Briend Painter:-

The may of the United States came to hand yester-

I cannot find that letter which you state was written to you. Johnson says you only thought it was written to you, and he informed me that when he builted for it he could not find it either.

Very truly yours,

Mossrs, J. P. Rogers, & Co.

63 India Square,

Hoston, Mass.

Door Sirs:-

to state that I will communicate with Mossrs. Cotton & Guild in relation to the ink.

Yory truly yours,

Jak

W. C. Smith, Esq.

Poreman of Construction,

Rapid Tolegraph Go.

181 Broadway, City

Dear Sirt-

I shall be glad to see you if you are inclined to take a position with me in connection with the prection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dert.

lty

Mdison c

William Schwonk, Esq. Prest.

Mt. Carmol, Penna.

Dear Sir:-

We have your favor of the comber lat., and repret very main that "all the parties here are disgusted with the management". We are doing all we can to push the work, and the material, the supply of which we absolutely control, has rone forward. Cortain things we have to get free outside parties are being pushed as quickly as possible.

You can purchase all necessary material for virevery from Basses, Bergmann's Co., 202 Avonue P., New York. I think, however, the best way would be for you if Timit an amount you desire sent and order it through me, and I would be careful to see you got exactly what you wanted and at the proper prices. I am of the opinion that you would be far better served if you got Ployd of Shamakin to do your waring, in which case he would supply his own material, as he carries a stock of it.

Very truly yours,

Thomas A. Edison Constn. Dopt.

4. S. Andrews, Esq.

. P. O. Box 565, .

Fall River, Bass.

Dear Sir:-

We enclose you berwath lotter from Frank Maios of Worenster, Mass. So have informed this gentleman that he had better call on you at Fall Siver and have a talk with you in relation to what he wants. If he does so, will you please let us hear from you as to the matter, and if he is likely to turn out a good man we might start him as the rest of the nevices in our business.

Very truly yours,

Thomas A. Edison Constn. Dopt.

is S

Enclosure

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W. S. Andrews, Esq.

Fall River, Hass

Doar Sir:-

The stare machines will be shipled to lawrence by Wednesday at the latest. When you go there to put them up will you please keep an exact time it takes on the machines used, as those are extra and outside of our contract and we have to charge these for it. Are the foundations all ready and has the lawrence Company had their ulax Io engine altered, so as to carry a driving pulley on each eid of the shaft. I have written to in lord about this matter by to-might's mail.

Very truly yours, Thomas A. Bulson Constn. hept

84

W. S. Andrews, Esq.

Fall Biver, Hass.

Dour Sir:-

Please let us know as early as possible when your station will be ready to start up at Fall River, as I think for Edison will se up to start it, and I accordingly would like to know, so that he can beoprepared at the time.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

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Edison Con

. .

Docombor 4th.

The Armington & Sins Co.

Providence, P.

Door Sirs:-

You will notice that we have sont you in a number of orders for single engines, that is we propose running them in small stations without a spare. I spake to your Er. Sina semetime upo as to what extra parts should be sent with these engines, so as to enably our men to remedy a breakeown quickly. Will you pleane but me have by return a list of the extra parts that you think should go with the U 2 X 12 and the 14 2 x 13 engines, where they are put in a station by thomselves. I indly attend to his matter immediately, as I wish to settle on our policy in this connection before I sail for Europe.

Thomas A. Edison Constn. Dopt.

M. S. Androws, Esq.

Fall River, Mass.

Dear Sirt-

We bek to inform fee that we have received a telegram from Mr. Rich stating that the Yiffin station will be ready for wiring in two weeks,

Very truly yours,

Thomas A. Enison Constn. Dept.

by S.A.

. S. Andrews, Esq.

P. O. Box 305,

Fall River, Hass

Doar Sir:-

We want to got up a small book of examples around in placing lights and safety plugs. The examples should be made to scale approximately. Will you please collect them as you have leading and give sizes of wire used. I send you two rough enjois of book giving sizes of wire, one for services on three wire system and one for services and inside sixing on two wire system, both have one per cent drop. I will send you to-morrow one for two wire system with two per cent drop. You will notice that the lamps are all supposed to be placed at the expression, of course this is so with services but not so with inside wiring, but I think it best to have a surplus of wire services. I think you should not have but one per cent drop, but the inside wiring can stand two per cent, especially as it will not work bad, owing to the disposition of the lamps.

Very truly yours,

Thomas A. Edison Constn. Dopt.

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Rosers. Eimer & Amend,

305 Third Avenue, City

Dear Sirs;-

we have conglaints that the meter bettler which you sent out for as have iron in them in the form of iron scales.

This renders them absolutely esclose for our jurpose, as the cold solution which we put in the bettle of solution which we put in the bettle of solutions with the put in the bettle of solutions.

Will you please rectify that in future.

Very truly yours,

Thomas A. Edison Constn. Dept.

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James Harris, Esq. Secty.

Bellefonto, Fenna.

hear Sir;-

I give you below prices of the various leaps made:-

16 candle lamps.....

32 candle lamps..... /60

7.00

100 candle lamp, although apparently higher priced than the

lo candle lamp, as a matter of pact is more durable and is more

considered botter suited to the consumer and takes the place

of a fine jet. If the lo candle lamp is used extensively the

balls of your consumers will be 10 higher than their gas bills,

ostimating that you sell it at the same price and has. In fact we

look upon the 10 candle lamp as the

Thomas A. Adison Constn. nott.

By

The sphor 4th.

A. J. Brown, Esq.

Foreman of Construction.

Wostern Union Telegraph Co.

Jus Proadway, City.

Door Sir:-

I shall be glad to see you if you are inclined to take a position with me in connection with the erection of electric light lines.

Very truly yours,

Thomas A. Edison Constn. Dept.

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3

Mosers. Bergmann A Cu

202 Avenue E, City.

Dear Sirs:-

I notice in the supplement of your catalogue that you mention the various articles got up for the Construction Impartment. As the greater number of these things are made for use in connection with our and and the experience which results from their being made costs this perartment quite a good deal of money, I think that you should arrange your prices so that as to let us have the various afficies we order at better rates than you sell to other distomers, say an extra discount of fifteen per cent.

Will you please let me have your views on the subject.

Thomas A. Edison Constn. Dopt.

В

SI

Docombor 4th.

Messrs. Bergmann & Co.

202 Avonuo 8, City

Donr Sirs:-

To have very serious complaints from Fall Naver of the non-arrival there of the material ordered from you for fixing up the central station. We have four men there who are unable to work, owing to your not shipping our goods promptly. This dolay in a station of any sime causes us a loss of from \$20. to \$23. a day, bosides keeping us out of our money for our work considerably longer than would be the case if you would ship promptly. It seems to me very strange that you cannot get out a few switches in less time than we can have \$301076 shipped, stoam piping made, oneshes built and dynamos constructed.

Cannot you give me as absolute date at which you can ship our orders for Fall River, Tiffin, Mt.Carmel, Maxleton, Bollafonte, Middleton, Bollafonte, Middleton, Bollafonte, Middleton, Bollafonte, Middleton, Mt. The goods should go forward in the order montioned. We impressed upon you when giving the orders for these stations that it was necessary that the safety catches for pole line work should be shipped incodiately. It is now twolye or thirteen days since you received the orders and we have no notification of shipment, and we have three men who are waiting to use those safety catches. I am yory much afraid that we shall

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have meanly \$250,000, worth of work to carry upwards of thirty days longer than we ought to, unloss you were to ship to us more promptly. If you are pressed why cannot you arrange to jut some one class back, as oursels certainly the most important, as the amounts involved in our contracts are so much higher than the Isolated Company or any or the Illuminating Companies.

Very truly yours,
Thomas A. Edison Constn. Dept.

y rel

December dib

Hossis, Rorgmann & Co.

202 Avenue B, . City.

Dear Sirs:-

We have your extremely pleasant letter of the lst.

If you do not know sho in Shaw is, considering the time he has been in our business, I think it shout time you do.

No is the State Manager for the Edison Kleetric light in Penna., and has some connection with the Chic Installation Company.

It is not our business to communicate with in Shaw and tell him what he should do or should not do. If you want any information conveyed to him about discounts we would suggest that you do it yourselves.

Yory truly yours,

Thomas A. Edison Constn. Dort.

December 4th.

Mossrs, Cotton & Guild.

34 Milk Stroot.

Hoston, Hass.

Door Sirs:-

We have frequent inquiries from Noston as to the duplicating link of mine which was sold extensively some few years bash, but of which none has been made for seastime past.

Hosers, J. P. Popers & Co. have suggested to me that I an addle with you to carry a stock. If you are willing to d. so, I will have some made up in my laboratory, and will soll it to you at a reasonable price. I am anxious to pursue some such course as this in order to oblige the people applying to me for it.

. Very truly yours,

Tak

l'orsonal

Docombor 4th.

A. B. Chandler, Esq.

44 East 14th, Stroot, City.

Priend Chandler:-

Yours of the 1st. to hand.

T have written to Brown * Smith offering them positions.

If you hear of any other men lot me know,

ory truly yours,

Paul D. Dyer, Esq.

161 Carondolot Street,

Now Orleans, Ja.

Doar Sir:-

I have your favor of the 20th, inst.

If you are not near ome at heristmas time we will allow you the amount of your expensed to get to dashington and back to the point where you are at work. I prosume you have nomobjection to this. Of course we sympathize with a man who goes into a town like New Orleans and buy his experience at the relief of \$30. I lesson.

Our business is betting along swimmingly, at the present time we are erecting the following control stations, Fall River, \$40,000. Nowburgh, N. .. \$60,000., wallorende, \$10,000. Nr. Carmel, \$14,000. and Newtonia. Side, one follows are in Ponnsylvania. Side, one follows, \$13,000. Iffin, Ohio, \$10,000, and Middletown, Thio, \$13,000. We shall start in Williamsport in the course of a yeak, contract \$33,000. Brockton, Lawrence, Shumokin and Supplyy are running elegantly, getting all the customors we want and making money. This is the state of our busi-ness in byer.

I have been going for our boys in the office for not sending you gullstine, but they do not contain any information assets

about our contral stations. The New York Central Station is just "booming", collections 210,000. For month. Fave more customers than we can possibly carry, and if we get through Bocember without a broakdown it will simply be that the "angels" are on our side, as we have too many lights connected already.

I sail for Europeloh the lith, December and shall be away until the lst. Pebruar and if you so not get any word from this officenthat you can go home to spend christmas just take "Fronch leave", and charge your expenses in your weekly statement and if they "kick forch them to this letter.

very truly yours,

-December 4+1

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A. H. Chandler, Esq

44 East 14th. Stroot, City

Friend Chandler:-

Yours of the first to hand.

With relation to Colonel Sherman, he goes to Bucnos Ayros solely for the Edison Electric light Company, and I cannot soc how it would be possible for him to do business for any one class. No is as you state a "Quoer dick", but soems to be an indefutigable worker.

Very truly yours.

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December 4th, 1663.

A. A. Cowlos, Esq. Socty.

le cliff Street, city,

Dear Sir:-

I am still receiving complaints from our Superintendent of the delay in Shipping him wire and bars for armatures and magnets. Cannot you hurry ferward a heavy shipment, so as to give us semathing to work on. The quantities shipped to us are go small right along that we are continually in arrears and consequently obliged to continually complain, which I can assure you is very distanteful considering the manner in which you oblige us in other contracts. Is

I am having a statement projected of the exact shipments made within the last few months. I will come down and see you about the matter probably Thirsday or Priday.

Very truly yours, The Edison Machine Works,

Ву

December4th, 1883.

W. H. Ewolloy, Jr. Req. Troas.

Fall River, Cass.

Doar Sirt-

We have your favor of the let. inst., and immediately on receipt of some arranged to berrow an armsture from the Isolated company, in order to accomments you under the erromatances. We wared you thin sorming that the armsture would be shapped this you make reasonaber that we do not loop a stool of annothers of the old form of machines on hand, and consequently we have more difficulty in filling your orders for some right away.

Try you was a manuture it takes at least two weeks to make

Yory truly yours,

The Edison bachine Works,

1:-

81

W. P. Dwelley, Jr. Esq. Treas.

Fall Mayor, Mass.

Door Sir:-

We have the pleasure to achnowledge receipt of your favor of the lat. inst.

The spare dynamics were shipped to Mr. Andrew either on Saturday or Henday.

We purposely her them the meter supplies to until the other work is practically completed, as our experience is that pure get lost in the confusion of getting the station in order.

We will, however, have everything necessary shipped forward this wook.

, Temporary fixtures and Insulating joins will all go forward. Jamps will in all probability go to-day, if they were not shipped yesterday.

Very truly yours,

Thomas A. Edison Constn. Nort.

Docombar 4th

E. H. lord, Esq. Treas.

lawrence, wass.

Doar Sir:-

The ruch surprised to receive your favor of the 30th, November. If you will look over your contract you will find that the third jayment is due thirty days after the plant is in condition to supply light, and your plant has been in condition to supply light considerable time, and what I ask for is for a payment on account, and there is a balance left which, together with the extra tubes laid, gives an ample margin for any such troubles as you speak of. You are short about \$100, worth of meters at the procent time.

Your indicators are made in accordance with the indicators for up by the Engineering Department of the Add roof Electric
light company, but notwithstanding this I propose to replace them
as seen as I have a stock of an indicatorsof a more recent design,
which I got up myself within the last month. I am not compolled
to do this under my contract, but propose to do it in order to give
you an article which, in my opinion, is best suited to your busi-

Our Superintendent claims that the work is done properly and asserts that every other injector has been connected in the same vary classifier.

You state that your engines have ten inch belts, when they should have twelve inch. This is simply a matter of opinion on your fart. We have not allowed more than a ten inch elsewhere.

I sould request you to reconsider your decision as to withholding the cheel for \$5,000., as I think I am fully justified in asking for it at the present time, more especially as we have lost considerable money in the installation of your plant at lawrence.

Very truly yours,

Thomas A. Edison Constn. Dopt.

.

51

December 4th.

Mossrs, Harris & Robinson,

Turner House,

Danbury, Conn.

Dear Sirs:-

We think, in roply to yours of the outh, ulto, we profor to wait and make a successful installation rather than risk failure, which the plant you suggest would in all probability load to.

Very truly yours.

Thoman . A Edison Constn. Boyt.

. . .

81

0

7. J. Jonks, Esq. Henegor,

Doar Sir:-

We shall be ready to ship the two small muchinos to brockton sometime this work, and we shall be glud if you will send us by return an exact plan of that part of the engine room showing the position of the present small engine and dyname, also the position of the large engine and the two dynames. What I want to find out is whother it will be necessary for us to move the small engine of the large engine and the two dynames. What I want to find out is whother it will be necessary for us to move the small engine from its present position, to enable us to drive two dynames from each saide of the shart. If this is necessary it will add very materially to the expense of making the change, but if it is unnecessary on the shart with the engine and make the necessary connections for about \$650. In this of course we allow for taking back the present "I" dyname which you now have. I will write you to-morrow giving absolute figures for which we will make the change.

Very truly yours,

Thomas A. Edison Constn. Dopt

10.

Hear Engines

December 4th.

Mosers, Earris & Robinson,

Turnor Louse.

Danbury.

Donr Sirsi-

We have your Payor of the 25th. November, and in reply bon to state that our business boing a peculiar one we have to use material best adapted to it. The babecel & Wilcox boiler is the only one which we can use and rely upon. It is a quick stomning boiler and takes care of the great variations in our load, which rises often from the to 130 horse power in the course of ten minutos. We have tried every other kind of boiler and find that it is the only one we can use. The old fubular boiler is very much chemper, but absolutely of no use to us.

About throe years are we experimented on every form of engine we could find and have ever since continued the same experiments. We have never, however, found an engine suitable to our business as the Jawrence engine. It would take too long to go into all the reasons for explaining the advantages of it, so it must suffice for me to say that it is as much a part of our plant as the dyname, and we shall continue to use it until we find some other engine equally as good as that manufactured by the Armington & Sims Co.

Vory truly yours,

Pique

becombor 4th.

3

1. H. Hoffmann, Esq. Prest.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 30th. November enclosing chapter for Sq.490.75, being twenty five for cent of the contract price for the creation of a central station plant at Figua, Chio.

I shall be glad to hear from you whether the contract is to be made with your Company or the local Illuminating Company of Fiqua. Tamediately on receift of this information I will send you signed contract. If the contract is to be made with the Fiqua Company, please send as full information as to the office of the Company, copy of the subscribers and amount of their sub-

seriptions.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

Qua Docombor

3

A. A. dowles, Esq. Secty.

19 Cliff Street, City.

Dear Sir:-

To enclose you hard ith order for siz for Figua, Ohio.

Floase have the mecessary payors sade out and forwarded to be for signature. The mecess of our controls such the Edison Electric Tiluminating Company of Figua, Ohio is \$13,070.40

Yory truly yous,

Thomas A. Edison Constn. Dept.

11--

Enclosure.

A. A. Cuwles, Esq. Secty.

19 Cliff Street, Donr Sire-

Referring to your fever of the 3rd. inst., will you please have the necessary papers in connection with the order for the middleterm, thic, wire. - ur contract is with the Edison Electric Illuminating Company of Middletown, Chie, and the amount of seme is \$13,909.31

> Very truly yours, Thomas A. Edison Constn. Dept.

.

boar Sir:-

I am some to leave here for Europe on Tuesday next, and should very much like to this with me a letter from you as brasident of the Sunbury Company, stating your experience with your plant and the learth of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This vall be of immonse assistance to me in dealing European
Ath some of Mr. Edison's friends. Will you so far oblige by sending me this as soon as you can.

Vor/ truly yours,

December 3th.

V. B. Bouty, Esq. Frest.

Shamukin, France

Dear Sir:-

I am pring to loave here for Europe on Tuenday next, and should very much like to take with me a letter from you as President of the Shmackin Company, stating your experiencewith your plans and the length of time you have been running, the number of lights you now have, the cost of running, your receipts and what you look forward to making.

This will be of immoned assistance to Me in dealing with some of Tr. Edison's European friends. Will you so far obline by sending me this as soon as you can.

Very truly yours,

8-1

3

Mossrs. Bradstreets,

21.1 Broadway, City.

Bear Sirs;-

I shall be plad if you will inquire into the standing of the Rdison Electric Illuminating company of Elddlatown, Butlor County, Chio. The stockholders are, we understand, as follows:D. He Callay, P. Wilson, C. P. Johnson, C. H. Wardlow and J. F. Thomas, besides some Cincinnati jurtics with whom we are acquainted What we particularly want to know is the standing of the gentlamon whose names we mention, and what is thought of this Mow Company in Hiddletown.

Very truly yours,

Jak

December 5th

3

W. D. Rich, Esq.

Dear Sir:-

Referring to your plan of Hellefonte, I regret to inform you that the sketch you have sent us indicates that the arrangement of the interior of the station is entirely opposed to the mothods which Mr. Edison desires us to pursue in designing the interior of stations. Of course this is a matter which you could not be posted about, but I would be glad if in the future, before making any alterations in our plans, you would please refer the questions to this office, so as to give our engineers an opportunity of expressing their opinion of the matter. You have placed the cylinders of the engine as far away from the boiler as possible whereas it is Mr. Edison's desire that it should be as neartto the boiler as possible, so that the engineer can attend to his throttle and see thaths boiler is all right without moving from one position.

I am afraid that whom Mr. Solson comes to visit Bollofonto he will criticise very severely the proposed arrangement
there. Are your foundations so far advanced that it is impossiblo for us to alter the arrangement? If so, of course we must
leave the matter as it is, as there is not sufficient margin to
allow of our building the work up arein.

Tax going to have a plan prepared with the same size building as you have arranged, but with the machinery and interior of the station stranged so as to conform with Ur. Edison's ideas as to the matter. He is very positive in his instructions on these questions or olse I should not trouble you as to the same involved.

There is also another feint, whenever you alter the plan of a building you should advise us of the exact alterations, either before the alterations are made, which would be preferable, or if that is impossible after the work is completed.

We desire to make some alterations at Brockton just now it

and we understand that the plans in our office of the station shows by no means the same measurements as the arrangement of the station itself. Our machinery is always placed with the idea of offecting alterations at the least possible expense. We have to take out one "!" dyname at Brockton and put in two dynames, each of half the capacity of the "!", and these we propose driving from a pulley on each end of the shart of the "2 x 10 engine. We very much fearthat we shall have to take the engine down and build a new foundation in order to do this. We have written to "the Jonks for the exact measurements, as Mr. Sprague informs us that our plans are incorrect, as I have stated above.

÷

W. S. Androws, Rsq.

Vall Rivor, Bass.

Dear Sir:- .

A Hr. Spencer, a friend of Sprague's, is very anxious to start in our business.

I have requested him to report to you at sall River.

You might start him in like the rost of the novices and see what
however, of. or Edison says that he is very well posted and
wall turn out a very useful san. Flease advise us the dae he
arrives, in sall River.

Vory truly yours,

Thomas A. Edison Constn. Dopt.

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December ith.

John Ott, Esq.

393 Avenue B, City

Dear Sir;-

HIR Tate complains to be that he does not thank that
the orders of our construction bejortment have any particular
attention down of the laboratory. If he has reason to make this
complaint mean, I shall bring the matter to be Edison's attention,
as I wish you to understand that it is important that any instructions we issue as to our material should receive prompt and therough attention.

Vorý truly yours,

Thomas A. Edison Consta. Dept.

Charles T. Ruphes, Esq.

horgan House,

Poughkeopsie, N.

Doar Sir:-

Referring to your favor of the 2nd. December, will you please get the authority from Rajor Eaton authorizing us to canvass and prepare estimates for Fingston & Rendout.

Mr. Bruesi has not yot boon able to let us have his two estimates for haverstraw and Foughkoopsic. Immediately he does, however, we will push the estimates through as quickly as possible.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

Bv

SI

Frank H. He.Cormick, Esq. Prest.

Williamsport, Ponna,

Dear Sir;-

We wrote you on the 19th, November asking for a

Sottlement of our account with the Edison Electric Illuminating

Will you please let us hear from you in relation to the

matter.

Very truly yours.

Thomas A. Edison Constn. Dopt.

У

December 5th.

John Mullen, Esq. Treas.

Shamokin, Fenna.

Doar Sir;-

We wrote you on the 20th, November, asking for a set-

tlement of our account with you, but have received no reply.

"ill you please send us a remistance by return.

Very truly yours,

Thomas A. Edison Constn. hert.

Hy 38 0

December 5th. 1883.

W. H. Dwelloy, Jr. Esq. Treas.

Fall River, Hass.

Door Sir:-

You will greatly oblige us if you can arrange us a remittance by return mail for the amount of our account wannet you.

We enclose you herewith statement showing balance against you of 31,051,75

Very truly yours,

The Edison Sachine Works,

Enclosure.

Docombor 5th.

Goorge Grower, Esq.

Testing Room.

104 GoerckStreet City

Doar Sir:-

I sond you herowith helf a pound of the unique of zinc from Powers & Woightman. I shall be glad if you will test this and give us an exact xxx record of the test. Hosers. Powers & Woightman claim that this is as good zinc as I to a Fink's chomical pure.

Yours truly,

Thomas A. Rdison Constn. Dept.

Ву

Enclosure.

December 5th.

7. I. Garrison, Esq. Treas.

Boston, Mass.

Doar Gir:-

we enclose you heresith statement of account which explains itself, and shall be glist to receive your check for the balance 31,437,43 at your early convenience.

Yory truly yours,

Thomas A. Edason Constn. Holt.

By

81

Enclosure,

December 5th.

-

I. Woinschonk, Esq.

50 Wost 24th, Stroot,

Doar Sir:-

Referring to your favor of the 3rd, inst., I will call at your place on wonday next about ten o'clock.

waste amost

200

December 5th, 1888.

Western Edison Jight Co.

Chicago, Ills.

Dear Sirs:-

We beg to enclose you herewith statement of account showing balance against you of \$2,350.15

I shall be very much obliged to you if you will allow us
to draw on you at sight for this assumt, and if we do not hear
from you by telegraph to the contrary we shall send a druft forward for collection on Saturday next.

Trusting that you will be able to oblige us, we beg to

Very truly yours,

The Edison Machine Works, -

3

&J

Enclosuro.

Docember 5th. 1883.

Mosers, Borgmann & Co.

203 Avenue B, City.

Dear Sirs; -

If you have that block of slate, will you please send it down to Soldan immediately, as Mr. Edison wants him to work it up into a commutator right away.

Very truly jours,
The Edison Sachine Forks,

Docembor 5th.

3

George H. Miss, Esq.

Chicago, Ills,

Dear Sir:-

We have your favor of the 3rd, inst.

One 82 canale lump is equivalent to two 16 canale lamps.

You must have the dyname you refer to in a hot place, or also you do not leep the brushes at the non-sparking point.

If they are placed two blocks away from the non-sparking point,

the machine will heat more, even it 50 extra lamps were put on it.
We are improving our new machines in the matter of commutators.

We must confess that we cannot understand why it is, but the troubles with machines seen to compare your corritory, as we do not hear of any troubles from any other places that amount to anything.

Very truly yours,

2ak

December 5th.

Bosses, Borgmann & Co.

203 Avenue P, City

Door Sirs:-

Referring to your favor of the 5th, inst., we cortainly think that we should receive the special articles we use at prices better than these at which you sell them to outside customers. Of course we have to charge in our contract a higher price than what we pay you for the soods. Consequently unless you pursue the course we suggest, we shall be in the position of charging more for your material than it can be bought from you direct," which certainly is not advisable considering that the articles which I refer to are such as you make particularly for us, and any outside customer would certainly not require any such quanti-Why cannot you arrange to allow us a discount of 30 per cent and office people a discount of 10 per cent, or do I understand that you have already quoted 30 per cent discount. I could I should think that if you had not, that you could make an exception in the ease of central station articles as against the discounts you allow on articles of general manufacture. Yory truly yours.

Thomas A. Edison Constn. Doit.

× × ×

Decomber 5th.

3

G. D. W. Vroom, Esq.

Trenton, k.

Dear Sir:-

Referring to your favor of the 3rd, inst., if you will send on the affairst that is necessary 7 will execute and return it to you forthwith.

Very truly yours

He

Straight Line Engine Co.

Syracuso, N. Y

Poar Sirs:-

Referring to our correspondence as to the straight line engine, I shall be glad if you will build me a lo x 12 engine, having two driving pulleys thereon 50 inches in diameter and 11 inch face. We should require to fun the engine at speeds varying fred 200 to 270 revolutions. We shall have to depend on you entirely for drawings, as we have no drawintsmen to send you.

Jak

Docember 5th.

P. B. Shaw, Esq.

Cincinnati, Ohio

Doar Sir:-

We have a report from one of our men at wiffin stating that you quoted diper cent discount to some local parties there for Bergmann A Co's fixtures, showns Bergmann A Co, have quoted in per cent. Bergmann A Co's discounts vary according to the mature of their orders and the people they are dealing with like mature of their orders and the people they are dealing with like mature of their orders and they have asked us to request you not to mention discounts in the future.

Yory truly yours,

Thomas A. Edison Constn. Dept.

ву

21

becomber 6th.

Francis R. Wpton , Esq.

East Howark, N. J.

Doar Sir:-

Mr. Androws writes us that for the future he will run the bank of test lands separate from main line in stations. If the lamps are picked the matter of low volts will be of no consequence.

Very trul; yours,

Thomas A. Edison Constn. Doit ..

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5-9

C. W. Wilbur, Esq.

Post Office.

Mobile, Ala.

Dear Sir:-

Your favors of the 27th, November and 2nd, December ease duly to hund, and we are obliged to you for the information contained therein.

I have referred the matter of lighting the hotel to

I telegraphed you to-day to Atlanta to canvass Mobile and Manville, Va. We have no connections in either of these places, so you must choose a district for yourself, making thosanvass as comple as possible.

You had botter try and arrange your canvasses so as to

About the commencement of the New You we shall start you at work in Boston canvassing there, and shall irobably keep you Bast some time.

Your friend lyons is in Wellsborough, Ponna. . He will be in that State that whole of this month.

Yory truly yours,

Thomas A. Edison Constn. Popt.

F

December 6th.1883.

Mossrs. Woodward, Sherwood & Co.

17 Montgomery Stroot,

Jorsey City, N. J.

Donr Sirs;-

We have now a pattern shop in connection with our Works at Goorek Street. Will this make any difference in our

Very truly yours,

The Edison Machine Works.

14 -

82

December 5th.

G. B. Marile, Jr. Esq.

Mazleton, Fenna.

Doar Sir:-

To have your tologram of this date, and at once telegraphed to our Superintendent, who is now in Ohio, and we hear from him that he will be in Hellefonte on Honday and will in all probability be in Healeton the next day.

Very truly yours,

Thomas A. Edison Constn. Dopt.

by 1 6

December oth.

Frank S. Marr, Koq. Treas.

Sunbury, Penna.

Door Sir:-

We have information that your emineer get drunk the other might and left the station in clarge of a boy, and we also hear that your lights are very poorly regulated, and that the City letal people have threatened to ro back to Gas unless there is a change for the better. We trust that this is not so, and write you for information.

Yery truly yours,

Thomas A. Edison Constn. Dept.

Εv

37

Docember oth.

- 2

W. D. Rich, Esq.

Post Office,

Rellefonte, Penna

Dear Sir:-

We have your various telegrams and beg to confidence the sevent telegrams we have sent you as to Ht. Carmell Hellefonte

It does not soon to us that the worf in these places is being sufficiently pushed. "This is no fault of yours, but artses from the fact that you have so much to handle, and we would remaind you that we spoke to you when you were here and thought you hade a mistake in not having men who could take the initiative in starting work, even during your absence you have get to do something of this character with them.

To-day we have telegraphic instructions that williamsport has been finally closed and work will have to proceed there right away. We will send all the information about Williamsport to Pazleton, where we presume you will be about Menday.

Enclosed please find check for \$500, as requested.

Yery truly yours.

Thomas A. Edison Constn. Dept.

24.5

December 6th.

Thomas Sponcer, Esq.

South Maridan, Conn.

Dear Sir:-

If you are willing to start in our business and loarn our central station work, please report immediately to Mr. W. S. Andrews at our central station in Wall River, Mass. You can find out the exact location of the station by applying to Mr. W. N. Dwelley, Jr., Treasurer, Edison Electric Illuminating Co., Norden Block, Vall River.

Until such time as your services are valuable to us we will allow you a meaning salary of \$10. for week and railroad fares att.

Floase advise us immediately if you decide to start in

with us.

Very truly yours.

Thomas A. Edison Constn. Dopt.

ну

89

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Deer Sir:-

We have your telegram stating that the lot has been purchased in Piqua, and we have also received a telegram from our Caperintedent stating that he would be in Fiqua to-morrow morning.

To must confess that we fool formathat annulate that he should be kept in Siddletown with practically nothing to do, as his time is very valuable to us indeed, and we would urge you in the ruture to be sure that you have gur lot purchased before

Very truly yours,

Thomas A. Edison Constn. Dept.

чу

54

December 7th.

W. S. Andrews, Esq.

Pall Rivor, Hass

Door Sir:-

lounard is very abstous to go out to thio. We simply wish to notify you of his widnes. It must rest with you entirely as to whether he should go there.

Yours truly,

Thomas A. Edison Constn. Dept.

БЗ

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Decomber 7t

W. S. Andrews, Esq.

Pall River, Bass,

Dear Sir:-

bly a month or six weeks work at Mt. Garmal. The last I heard or him from you wan that he was at lawrence. If he is there still when will he be disoningsed? Flower wire me on receipt of this, as I have a letter in the office which I cannot answer until I hear from you.

You's truly,

Thomas A. Edison Constn. Dept.

Ву

Docember 7th.

3

L. L. Van Praag, Esq.

i. O. Box 624.

Salt Jako City, U. T.

Dear Sir:-

In roply to your favor of the Muth. Movember, Mr. Edison desires me to state that were he not well versed in the laws of electrical science he would be unable to make any progress whatever. I may myself add that he long series of successful electrical inventions have never been known to be the product of casual thought.

Yours truly

SH, PS

Docombon 7+1

W. S. Andrews, Esq

Fall River, Mass.

Dear Sir:-

I am oblined to you for your favor of the 6th. inst., onelosing design for three wire cut-out. The matter is having the attention of Mr. Johnson and No will doubtloss got up a cut-out for the purpose in time,

Very truly yours.

Thomas A. Edison Constn. Dopt.

Ву

1 son 6

Docember 7th.

0

J. N. Blauvelt, Esq.

23 Clinton Placo, City.

Dear Sir:-

I have made inquiries with relation to the references you gave me, which prove ontirely satisfactory.

I shall therefore be glad if you will report here for duty on Monday morning next.

Your salary will be \$12, per week.

It is of course understood that consecond here for trial, as we can hardly judge as to your abilities until we have had some exteriors with you.

Yours truly,

Shy

Judge J. P. Bunn, Esq.

Tiffin.

Dear Sir:-

We have a letter from our Mr. Walker with relation to wiring.

Our object in sonding him to Tiffin was to teach a local plumber or gas fitter to be appointed by you to do outside wirework. The wole of the transactions with outside parties should be conducted by this plumber. Our Mr. Walker should simply supervise the plumbers work and teach him how to run the business. It would be a great mistake for your local Company to do the wiring "itself. This we find from extended experience. You should appoint some local man to do it, and have him deal with your consumers in the same manner that we are running our business in Shamokin. There the local gasfitter has charge of the wiring. and our Illuminating Company has nothing whatever to do with the matter. We sent them a man who taught the gasfitter the business, and it is with this object that Mr. Walker has been sent to Tiffin, Yory truly yours.

Thomas A. Edison Constn. Dopt.

December 7th.

W. I. Garrison, Esq.

Boar Sir:-

We have to-day got out the map of Auburn, and we will

write you to-morrow or Bonday in relation to the matter of the desirability of the town for electric lighting.

Very truly yours,

Thomas A. Edison Constn. Dopt.

December 7th.

H. H. Hoffman, Esq, Frost.

Cincinnati, Chic.

Dour Sir:-

We have your rayor of the 5th. inst., and in reply ber to state that we will jost you of any delay in the work at Piqua, Tiffin or Middletonn. We do not anticipate any at present, except in the case in the dolay from a natter over which we had no control of and of which you are aware, as it is connected with the purchase of a lot at Piqua.

We have not received the executed contract of Figure, although we are going shead with the work. Will you please send this on. It was mailed to you some time back,

Yours truly,

Thomas 4. Edison Constn. Dept.

В

December 7th,

. .

H. W. Loonard, Eaq.

lawrence, Mass.

Dear Sart-

We have your favor of the 4th. inst.

You must arrange with his Androws as to your going to this. its has full charge of our clostright staff and the dispo-

sition of the services of the delabors of base. We have written him saying that you would like to go to mile.

you truly you's,

Thomas A. Dison Constr. Dopt.

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disen Constr

Honry C. Hc. Cormick, Esq. Prest.

Williamsport. Penna.

Doar Sir:-

bey to state that the exhibite you refer to, meanly, the may and outlinate, form part of our contract. It must, however, be understood that we undertake to run the lines in the places indicated, provided we are able to get the promat from the route. Our estated does not cover any payment for this right, and should we be unable to get past any particular point, we shall look to your climpany to make the necessary arrangements to enable us to do so.

In sonding our contract ploase give us a note confirming

You are right in understanding that we will run the station for thirty days after it is started.

Very truly yours,

Thomas A. Edison Constn. Dept.

E

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Messrs, Powers & Weightman,

City.

Doar Sirs;-

The sample of sulphate of zine, which you gave us, tested very well indued, except that there are traces of iron in it. Will you please quote us a price for this article and also sulphate of zine free from iron, the quotation to be based on order or half a ton, done up in 25 lb. tin cases. Please send us a sample of sulphate of zine free from iron. If we give you orders we would expect to receive the sulphate of zine subject to its boing tested.

fours truly,

Thomas A. Edison Constn. Dopt.

В

8



December 7th.

W. D. Rich, Esq.

Bellefonto, Penna

Doar Sir:-

Your numerous telegrams, including the long one from Pique, have come to hand.

of course all we could do was to judice the state of the work by the telegram we get here, and which we promptly repeated to you. If what you say is so, I would advise you to gom for Kr Markle and the other gentlemen for sonding such an errondous telegram of this kind.

We are still, however, of the impression that you will find that you are unable to handle so much work without a little better assistance than you now have, as we have never understood that you men could go out and start work without your being present to give them proliminary instructions. Of course we may be in error about this matter, and we are interested to see how long it will take to put up the present stations and forms correct conclusions in relation to how our work should be run. I presume if your system fails you will have no objection to trying ours? We are now standing off to see what will be the result. Of course it is our with that you should be able to run the thing according to your present methods, and if you are able to do so we shall be

òr

becember 7th.

Paul D. Dyer, Esq

Post Office

Galveston, Texas,

Door Sir:-

Door Sir:

If you work like a rase-horse, and get through the towns you now have to canvass South before Christmas, we will give you a "picnic" after Christmas in the shape of a district in New York to canvass. It will be a kind of a vacation to you.

ra trul/,

sessbor 7th.

W. S. Andrews, Esq.

Fall River, Hass.

moar Sar

We shall have one of the pressure indicators got up

by John Ott sent to you immediately Bergmann turns it out.

Er. Edison will not allow me to send the model away.

Vory truly yours,

Thomas A. Edison Constn. Dept.

l:y

L# 1

Docember 7th.

W. S. Androws, Esq.

Fall River, Mass.

Doar Sirt-

We return you herewith sketch of your clutch which you propose to use at Jawrence. We have ordered bergmann to no ahead and make the box, leaving you to take care of the clutch part of the business.

Very truly yours,

Thomas A. Edison Constn. Dept.

.

8 J

Enclosure.

December 7th.

Edmund Davis, Eso.

(a) Washington Street.

Providence, R. I

Dour Sir:-

We have your favor of the 5th, inst. If you will "send proof of the sketch shack you propose issuing so shall have no objection to your using it, providing so approve of it.

Very truly yours,

Zak

December 7th.

I. C. Walker, Esq.

care Judge Bann,

Tiffin, Ohio

Dear Sir:-

We have your letter of the 4th, December,

Your duty at fiffin is to take in hand the local flumber and his men and teach them how to do our wirework. This you should be able to do without any further assistance from New York. We were able to follow this course at Shamokin and we are able to do it at Tiffin. In fact it is imperative that this should be done, otherwise our expenses will be very heavy in sending men from here and having them do the wiring in Tiffin. The wiring also should not be done for our account. The plumber should be appointed by Judge Nunn, and any material they use we will bill to them if you will notify us when you deliver it ever to them.

We have already sent you the new calculations for inside wiring and will send a table for calculating the three wires services as seen as possible.

Use the time shorts of the Isolated Company and send us a specimen of any suggestions you may wish to make and we will have shorts got up for our construction Department.

The business anyway should not be conducted by you, but

it should be conducted by the local plumber, under your supervision and direction.

I have ordered the material you speak of and will forward as quickly as possible.

Very truly yours,

Thomas A. Edison Constn. Dept.

1883-12-10

Battery, Storage

December 10th.

3

G. W. Drewko, Esq.

Clinton, E. Feliciana, F. Ja.

Door Sir:-

Referring to your favor of the 24th. Movember, I would state that your suggestion in a practicable one. An induction coil through a spark of half an inch with two colls or battery, the whole set up in portable form and having two Brishes of wire, would do the work. I have no time at all to experiment on the matter, as my business occupies the whole of my attention,

Very truly yours,

.

Docomber 10th.

3

Francis R. Upton, Esq.

East Nowark, N.J

Doar Sir:-

Jondon, W. C. England, a statement of the Jamp Company's affairs up to the endoof November. I desire this so that I can explain intelligently to Mr. Batchelor the exact standing of the Jamp Co.

I have a letter free him this morning in which he auks no to do this.

Yery truly yours,

SI

Dynamos

Docember 10th. 3

7. J. Jonks, Esq.

Door Sir:-

Brockton, Hass.

To have your favor of the ith inst.

As soon as our ompineers have rigored on the shotch you sent us, we will write you definitely as to what we can do in relation to tree small dynamis. We have them remay to shap, but there is no object in sending them to you until we know exactly how we can place these.

Very truly yours, Thomas A. Edison Constn. Dept.

Βv

S. D

December 10th.

W. J. Garrison, Esq. Troas.-

Poston, Pass.

Pour Sir;-

We have your favor of the 7th. inst ..

We have written in such with relation to the Cornwall west Regulators, and as soon as we hear from him will result for sa name. At the present time of have no hill for them in our office.

with relation to J. W. Mailoy & Non's bill the letter you onclose is the first that we have heard of it. In fact we have no bills on our books for the Brockton central station.

As soon as we can get word from Mr. Rich in relation to those matters we will liquidate the claims. Heantime we must request that you do not send cheeks for same, as there may be some reason for their not being paid.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

By

Jelegraph - Gen,

December 10th.

S. B. Harvey & Thus, Hearsey,

505 Pierce Street,

. Phila. Ponna.

Doar Sirs:-

Referring to your favor of the 4th, inst., the best way to learn telegraphy is to be into a telegraph effice as a telegraph boy and pick it up in What way.

Yours truly,

33 Congress St.

Dotroit,

Doar Sirs;-

Wo have your fever of the 7th. inst., and your wishes in remard to estimates shall receive our attention.

Mr. Cooks will not be withdrawn from your torritory until ho gots through.

Very truly yours,

W. D. Rich, Esq.

Doar Sir;-

The Bellefonte people object to the

use of asbestes roofing. T presume you will settle this matter

Yours truly,

Thomas A. Kdison Constn. Dopt.

ν,

W. D. Rich; Ksq.

Dear Sir!

You may remember of my spealing to you about the boilers at lawrence. We have a letter from Mn lord in which he save:-

"I know that when we feed our boilers with cold water the steam is so damp it will not do much more than half duty, although the ironsure remains constant or nearly so."

I think Mr. Lord claims that the trouble is with the injector connections to the boiler. Will you please lot me know what you propose to do in the matter.

Yory truly yours,

Thomas A. Edison Constn. Dort.

Рy

1.0

W. D. Pich. Esq.

Door Sir:-

We onelose you herewith letter from Mr.

Carrison, together with bill and letter of J. W. Bulley & Son.
Will you please lot us know per return about the Corn-

wall Hout Repulators and d. Thailey & Son's bill, as if the claims are correct we want to pay them. It nots us into rather

Yours truly,

Thomas A. Rdison Constn. Dept.

Ву

bad odium to have matters stand over.

Enclosure,

Docombor 10th.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Door Sir;-

Referring to your favor of the 6th. inst., you will have one this have received information to the effect that our Superintendent has started the work at Piqua.

Vory truly yours,

Thomas A. Edison Constn. Dest.

A-0

W. J. Hammor, Esq.

Berlin, Gormany.

Door Sire-

Referring to your letter with date, I think if you will look up my patents you will find that one of them covers a patent for taking care of the irregularities in a gas machine.

DYNAMOS. The "IP machine is tested for 400 unperes." 300 lights means nothing, suppose they were 50 candle lights. Plouse talk empores. We gave Butchelor the currying power in ampores. Since you received the model "N", we have reduced the resistance of the armature by using larger wire, thus easing it up so that it runs cool with 400 amperes on it. You people word in such a hurry to receive your model, that we were compelled to ship you the first machine we had, and because there was considorable delay in making the seigment you seem to shinkhe impression that we were not paying attention to you. If you had left us to ship you what we considered our boot machine, we should not have shipped the 400 ampere machine, but would have waited at least a month after the date that we made the shipment.

We can send models of a hale horse power and one smaller

size motor for sowing machines.

With relation to the lamp factory, I note what you state as to the desirability of having your lamp factory in Germany itself. I will send you the apparatus that you may order, but it will be muite impossible for us to supply your Company with any men. Our staff has already been reduced too much by sending out our assistants to Europe, and we must really look to ourselves in relation to this matter. We have now reduced the price of the ten candle lamps to 50 cents. As we make more of them we shall probably reduce the price further, but the shrinkage in the manufacture of the lamp is probably greater than in any other. We do not use any "F" lamps at all to speak of in this country.

I will have curies of estimates and plans sent forward toy uo in the course of a wask or so. You will be able to get information in relation to these matters from Mr. Insull, who leaves here on Tuesday.

We do not propose puting the three wire tubes in the down town district, as the whole of that district is now covered with the two wire tubes. We are, however, arranging to build another station uptown, which will be run on the three wire system.

101 our small town plants, whether underground or overhead, are

Ta. & D

3

Colonol C. Coddard,

My Hoar Goddard:-

I have your memorandum of the 8th, inst.

I was under the impression that you were still out of town, as the estimate has been waiting here semetime.

The mere fact of my boing away will not provent your getting estimates made out here.

Yate will communicate with you as to the dstimate.

Many thanks for your kind wishes as to my trip.

If there is anything that I can do for yourover there, if you will

address me care of the Vestern Electric Co., 38 Moorgate Street,
Tondon, E. C. England, I will have ground pleasure in attending to

Very truly yours,

S. g

Colonel G. Goddard,

My Doar Colonel:-

I got your lotter writton Saturday this morning, and am sorry that I could not see you prior to your starting for Moston. I am now just in receipt of your latter of Sunday night.

By Address in Iondon is, 21 Surton Crescent, Lendon, 7. C. England.

I shall be very happy to attend to any matters for you there. Flease drop me a line stating what you want me to do as early as possible, as my stay in london depends entirely upon how long I shall be kept by cortain butiness I have be attend to.

My cublo address is thould be necessary for me to use the wire.

Thanking you for your vory lind wishes, and hoping that you will have a pleasant christmas, boliove me,

Very singerely yours,

3

Secretary,

Edison Electric Jaght Co.

74 Coleman Street,

london, E. C. England.

Donr Sir:-

Then to advise you that my Frivate Secretary, Mr. S.

Insull, will arrive in loaden about the 20th, inst., and will in
all probability be in Europe about a month.

While he is there I trust that he will be able to make arrangements with you for the settlement of my patent account, and also hope that he will be able to getan revision of my contract with you in relation to patents, as in its present form there are many objections to it. He will explain to you when he calls on you what I desire to achieve in this connection.

Very truly yours,

Charles Batchelor, Esq.

Paris. France.

By Doar Datch:-

Yours of the 25th, ulto, came to hand this morning.

I will have all the data as to accounts with me when I arrive in Paris. I have got a variety of matters that I sant to go into with you there, but the main thing is to show you how necessary it is, alike for our business and your own interests, to come back here. Enowing your wishes in the matter I do not think you will mand my persuasion.

Write me to Jondon, saying whether you will be in Paris right along from about 27th, December. I hope to got there by New Year's anyway.

My Jondon address is Damuel Insull, Jr., 21 Burton Croscent, Jondon, W. C. England.

Very truly yours,

•

Compagnie Continentale Edison,

Paris, Franco.

Door Sirs;-

Referring to your correspondence as to the prices I have quoted for lamps and the fact of my having entered into competition with your factory as stated by you, I ber to advise you that my Private Secretary, Mr. Samuel Insull, will be in Faris ourly in January and will call on you with relation to the matter, and I trust will be able to mic some arrangement satisfactory quality to you and myself.

Vary truly yours,

J.a. 8

W. S. Andrews, Esq.

Fall River, Hass

Doar Sir:-

Referring to your favor of the 0th, inst., I informed Nr. Oakley that we should no longer require his services, as I understood from you that he was hardly good enough for our work,

Yours truly,

Thomas A. Edison Constn. Dept.

13:

SI

W. S. Andrews, Esq.

Fall Rivor, Mass

Dear Sirt-

Referring to your favor of the 7th. 18st., we have quasted a stock of stru ordered, which of course must be used up before we start at with the straight reds which you suggest for interior us in stations. The Ansonia topic sould make the ware for us in twenty foot lengths as they do for the Tube too, but we would profer ordering it in twelve foot lengths, as it can be handled in Stigmont much easier in the latter lengths.

Very traly, yours, Thomas A. Edison Constn. Dopt.

80

E. H. Jord, Esq. Treas.

Jawrence, Mass Boar Sir:-

We have your favor of the oth, inst., and in reply beg to state that the interpretation we gut upon our contract with you is exactly what we have always understood it to mean.

We do not understand what you mean as to the engine pullays. No you mean the pullays on the b¹2 x 10 or the 14 x 13 engines as being all right, if we send you 10 inch pullays on the dynamos, that is do you want 10 inch pullays on the spare dynamos or on the main machines.

With relation to the use of 12 inch bolts, we have very great respect for the opinion of Mr. Sims, but we must confess that we prefer that our engineers should decide all questions in relation to the engineering of our stations. When we think that our office talent is deficient, we may possibly call on Mr. Sims for his opinion in the matter.

We have written to an Rich in relation to your boilers.

He is now in Senseylvania. Of curre if there is any trouble,

for which we are to blame, we will fix it.

Thomas A. Edison Constn. Delt.

£, c

Бу

Dec. IIth

3

Tr. W. Taylor & Co.

Willow Springs, Jackson, Co.

Oregon.

Dear Sirs:-

Roplying to your lotter of the 24th, inst. I bog to say that Professor Price, of Samperancisco, is in my opinion the most trustworthy assayer in the United States, and I would suggest your communicating with him.

Very Truly Yours,

hur Jé

. 33

Hr. W. S. Androws,

Gon. Electrical Engineer.

Box 565 Fall River.

Doar Sir:-

We have your letter dated at Lawrence of the 7th, inst. in relation telephone Mr. Leonard to Ohio.

In reply we beg to say that the management of the Ricctrical Station is entirely in your hands. And you must dispose of your mon as you think bost.

In regard to the number of Ferders in the Williamsport In stallation, we had a new canvass made of this place as the one had in the Office was an old one made by the Light Co. We are now having a new Electrical Det emination prepared, and will advise you to morrow by wire as to the number of feeders. It is that the Act that hard installation.

Vory Truly Yours,

Thomas A. Edison, Construction Dept.

Doc. IIth.

W. S. Andrews, Esq.

Gon. Electrical Engineer,

Box 565 pall River.

Dear Sir:-

In reference to your letter of the 9th, inst. we do not think it ut all likely that Piqua and Middletown will be ready as soon/as fiften is finished. At Middletown they have not yet section/the let for Central Station purposes. And the work on Piqua las only just been started, either Bellefont, or Mt. Garpel will follow, after Tiffen Piqua may come in about the same time as Azzelton, but Middletown will certainly be the last on the list.

In relation to Sponcor plause note the attached letter, whi better start him to work at a suary of the Dollars per work, we to allow his railway fares.

Please return Mr. Spencer's letter for perusal.

Vory Truly Yours,

Thomas A. Edison, Construction Dop't,

22

Dec. IIth

W. S. Andrews, Esq.

Gen. Electrical Engineer,

Box 565 Pall River.

Door Sir:-

In rought to books of questions and answers, we do not in each case take receipts for them. Communt Doubleday & Joonard, each and a sot, but we cannot at the moment remember wheather any of them were returned or not. In any event it woul: be as well to isono a contion.

a contion. The while I for are four.

Very Truly Yours,

Thomas A. Edison, Construction Dep't,

Docombor 11th. 1883.

Gustav Soldan, Esq. Supt.

104 Coerck Stroot, City

Doar Sir:-

Referring to the attached letter from Mr. Dwelloy, in which he complains of the workmanship on the second "H" dyname at the Plint Hills, please read same and let me have your answer at the earliest possible moment.

Yours' truly,

The Edison Hachine Works,

Ву

Liteam Engines

Doc. 11th,

Hr. Frank S. Marr, Troas.

Edison Electric Illuminating Co.

Sunbury, Penn.

Doar Sir:-

Hr Rdison has requested me to write you, suggesting that you make mire that your enter supply for Boiler will not from: up this winter. For Edison states that it is his opinion it will be affected by frost. Have the said mains been laid yet?

Vory Truly Yours,

Thomas A. Edison, Construction Dopt.

Ву

acey

E. H. lord, Esq. Treas.

Lawrence, Mass.

Doar Sir:-

We have your letter of the 7th, inst, addressed to Mr. Insull, in which you state that we are unbusinesslike for delaying your meters.

We would beg to remind you that this material is not made by un and therefore we only indirectly control its production. Upon the receipt of your latter we impodiately wrote to Messrs. Permann & Co. consuring them for the delay to your material and the inconvenience they put us to thereby, and in replying to us they admit the fault, and are burrying your orders to the product

There were shipped to you to-day, 10 extra bettles,
10 extra pairs zines and 10 sets of rubber fixtures each for the
12 light, 25 light, 50 light and 100 light meters, also five 12
light meters complete and fifteen in light meters complete, and as
we have stated above the balance of your order is receiving onegotic attention.

The cost of the meters which you now have on hand at Javrence, namely, 25 for 8 lights, 25 for 12 lights, 10 for 25 lights, 10 for 50 lights and 5 for 100 lights, together with the extra bottles, plates, zincs and rubber parts, amounts to about 3575., and in order to prove to you thatwe are not short on our work we would refer you to same, which calls for meters of different capacities from the above, yet amounts to only \$320. The changes in the size of the meters were made of course at your request.

In view of the above facts we should be glad to receive from you your check for \$5,000., as requested some few days ago.

There is sufficient margin left after paying us this money to enable you to discuss safely any matters wherein you think we have failed to live up to our contract.

The Jawrence installation has been pocuniarily disastrous to us, and we have urgent use for the money which we now ask you to send, and we trust that we can rely upon its receipt within the next few days.

Yory truly yours,

Jag.

meters

Doc. IIth.

Mr. H. Ward Loonard.

care Edison Electric Illuminating Co.

Lawrence, Hass.

Doar Sir:

In relation to form of Neter Blank which you prepared soke little time ago, will you be kind enough to send me a copy. I believe you sent me a specimen, but it has been mislaid in the effice hore.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

Βv

007

W. S. Androws, Esq.

Box 565 pall River,

Door Sir:-

Replying to your letter of the 9th, inst. in which you asked us to got patgmann & Co. to make a small cheap four point switch, similar to our Book House changing switch. Will you please send us a diagram of what you want drawn to acale.

Very Truly Yours,

Thomas A. Edison, Construction Dop't,

3

L. Woinschonk, Esq.

50 Wost 24th. Street, City.

Doar Sir:-

In reply to your note of the 10th. December, I regular vory much not having been able to keep the emeagement I and with you, but I was called away.

I will moot you on Wodnosday (to-morrow) at ton o'clock.

Dar

Dec. IIth,

Ceo. H. Bliss, Esq. Gen, Sup't,

Western Edison Light Co. .

52 Wabash Ave. Chicago, Ill.

Dear Sir:

We have your letter of the 8th, inst. in regard to Lima. We will be ready for the parties just as soon as they are propared for business.

Vory Truly Yours,

Thomas A. Edison, Construction Co.

...

Q0.

W. H. Welley, Jr. Esc. Treas.

Fall River, Mass.

Dear Sir:-

We learned this morning that you sent an order to the Edison Electric light Company for 300 sixteen candle power lamps for use in connection with the Pall River contral station.

we would beg to call your attention to the fact that the Fall River installation is for ten sandle power lamps.

Fall River being a coal gas town, we supply lamps of this power, and they, in practice, are always run at twelve candles, which will give more light than any five foot gas burner in your city.

We would strongly advise your recalling this order, or possibly there has been a mistake made and sixteen candle power lamps ordered instead of ken.

Very truly yours,
Thomas A. Edison Constn. Dept.

arey

Doc. IIth

W. S. Androws, Esq.

Gen. Electrical Engineer.

Box 5G5 Fall River.

Dear Sir:-

Roplying to your letter of the Oth, inst. in regard to carried, don't you think it would be a good idea to simply state inclanity to him, that Mt. Carmel, Hazolton and other places are now being started, and that he could do well at those different buints! "on his own boot."

Vory Truly Yours,

Thomas A. Edison, Construction Dep't,

Nessra, Markle & Wall,

33 Congress Street, W,

Dotroit, Hich.

Dear Sirs:-

In further reply to your favor of the 7th. inst., we her to say that we have the map of Grand Haven prepared and will send it to you to-morrow to obtain option on lots for central station purposes. After receiving information in regard to lots, and choosing therefrom the one best suited to our business, it is only a matter of a few days to supply an estimate. We should therefore be glad to know if you would like us to send you the estimate for Grand Haven, which you could hold yourself until propared to present it to the local people, or if you would prefer us allowing the matter to remain in aboyance in this office until we receive instructions from you to go should with the work?

Very truly yours,

Thomas A. Edison Constn. Bept.

..

D. M. Osborn, Esq.

Auburn, N. Y.

Dear Sir:-

We send you under separate cover, a Blue Print of Auburn. Eact in addition to supplying us with information in accord ance with the att ched form, we wish you would be kind enough to look over the matrict we propose wiring, and ascertain if there are any obstructions which would provent our taking the course we propose. We propo so laying under-ground mains in this place, and their course it indicated by a red line.

Very Truly Yours,

Thomas A. Edison, Construction Dop't,

Documber 11th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

To have your letter of the with, inst. in reference to
the new form of special report which we went you to have filled
out for a number of towns. We do not wish you to send a man around
specially to obtain this information, but we presumed that you were
in communication with local parties who could furnish the information we required. As you will notice the form is much more
complete than the old one which we used.

If you can obtain the data for us, as stated above,
we should be glad to have it, otherwise we do not wish you to go
to any expense in order to get it.

We return herewith Mr. Dyor's report on Jima as requested.

Yory truly yours,

Thomas A. Edison Constn. Dort.

y Paro

care Ohio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. 0.

oner Sir:-

Roplying to your letter of the 6th, inst. we beg to say that we cannot send the convessor to Pottsville as seen as the canvass of Circleville if completed. This will probaly be in a weeks time.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

Dec. IIth

er P. E. Shaw,

care Chio Edison Installation Co.

North West Cor. 6 & Vine Sts. Cinn. 0.

Doar Sir:

We have your letter of the 6th, inst. including the communication from Hr Bighter as to the progress at Ht. Carmel,
which we boy to return as equested. We are getting ahead at Mt.
Carmel just as fast as we possibly can. But of course we cannot
expect the local people there to see the difference between the
rection of a house, and the installation of an Electric Light
Plant. It will not be very long before these people are in
a bottop humor.

Very Truly Yours,

Thomas A. Edison, Construction Dept.

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H Ward Loonard, Esq.

l'awrence, Mass.

Doar Sir:-

se have your lotter of the 7th, inst. in which you ask for a copy of the book of questions a Angwors.

We would beg to remind you that Mr. Edison gave you a copy of this book when he was at Brockton.

The blue book containing table of conductors you can obtain from Mr. Andrews,

Yours truly,

Thomas A. Edison Constn. Dept.

y

ROY.

3

Sir John Jubboch,

15 Jombard Street.

Jondon, E. C. England.

My Doar Sir John:-

This will introduce to you my Privato Secretary
for Samuel Small Small
and business representative for Secretary
there. Unlist he is only your side of the Atlantic he will have
various business matters to settle with the Edison Fleetric light
Company of london.

Any assistance that you can render him will be greatly approximated by.

Yours vory sincoroly,

Tax

December 11th

Frank S. Marr, Esq. Treas.

Sunbury, Fonna.

Dear Sir:-

laid you?

that you make sure that your water supply for boiler will not freezo up this Winter. Mr. Reliefon states that it is his opinion it will be effected by frost. Have the street water mains been

Very truly yours

8 3

Doc. IIth

Mr. Chas. P. Lyon

Circleville, Ohio.

Dear Sir:-

We have your letter of the 7th, inst. The canvas: of Wolloboro came to shad to day.

In regard to whon you should commence canvassing a town, you should always start work at dusk, just as the people commence lighting.

Vory Truly Yours,

Thomas A. Edison, Construction Dopt.

moc. IIth.

John Jucas , Eaq .

11

Dear Sir:-

Boolying to your latter of the 4th, inst. in relation to running a machine for bereing coal by Electricty, I beg to use that the electrical part is hardly practicable. Albiess wires run through the drifts to furnish power and light, from a Dynamo at the Misting Works.

Yory Truly Yours,

3,01

Straight Line Engine Co.

Cor. nedder & Payette Sts.

Syracuse, N. Y.

We have you letter of the 6th, inst. in relation tola Pattern waker. We regret to say that we have not a man in our employ at the moment whom we could send. But are in communcation with a first class pattern maker, whose services we expect to secure. On this subject will write you more definately in a day

> Very Truly Yours, Edison Machine Works.

Gen. Alson Stager,

curo Mc. Gionis & Pouring.

30 Broad St. City.

loar Sir:-

The following is a pist of towns in Southern Illinois which I would propose to canyage and make estimates for for your Company. Planse advise as if we wall go where?

Alton, population 8,578,

Bollville 10,088,

Champaign, 5,100,

Springfield, " 19,746,

Decatur, " 5,548,

Jacksonvillo, 10,927.

Lincoln, 5/475.

Litchfield. 4,330

Paris. 4.370

Quiney, 27,27/3.

Very trally yours,

20%

Charles T. White, Esq.

103 Liberty Street, City.

Dear Sir:-

Have you on hand any sulphate of mine from from and would you be kind enough to send us a sample? If the material is satisfactory, we would like to give you an order for a quantity of it.

Very truly yours, Thomas A. Edison Consta. Dopt.

By agy

December 12th.

W. S. Andrews, Maq.

Fall River, Eass.

Door Sir:-

de have your letter of the 6th, inst. requesting us to order four more plus saltenes for bank of test lamps, which we have done.

In repard to pulleys on the "S" machine, this dyname is $\frac{2a}{n}$ run in connection with a 0.2×12 engine, which must have a 10° pulley. If we use 12° pulleys on the "S" machine, the Armington a Sims people would have to put a 37° pulley on their 9.2×12 engine, and as the 47° is their standard pulley, we do not wish to make a change.

Yory truly yours,

Thomas A. Edison Constn. Dept.

December 12th. S

A. B. Chandlor, Esq. Prest.

Fullor Electric light Go.

Union Square, City.

Done Siri-

Di you ascortain about Smith's wagos? Floaso givo me

. Yory truly yours,

Jun

Dec. 12th,

Prank S. Marr, Esq. Tres.

Edison Electric Illuminating Co.

Sunbury, Penna.

Dear Sir:-

We beg to enclose herewith statement showing the amount due us at the present time by the Sunbury, Co. It is chiefly made up by the balance due on contract, the other items are for wire, and some small fixtures, which we send at your request.

Very Truly Yours,

Thomas A. Edison, Constn. Dep't,

y all

Surbury

December 13th.

Frank S. Marr, Coq. Treas.

Sumbury, Ponnal

Doar Sir:-

In relation to your latter of the sth. inst., in which you state that the belt you are using on one of the sunbary engines shows signe of siving and should be replaced, and that it was only jut in service temperarily, we beg to say that we cannot understand why the belt should have given out so soon, nor have we any recollection of it having been placed there with the understanding that it was to be reserved and another one substituted.

Our Superintendent, so Rich, states that the belt was respliced at Sunbary and that the work was will done. It is exactly the sump article that we are using in commection with other installations, which latter are giving per feet substraction.

Very truly yours,

Thomas A. Edison Constn. Dept.

es aog

December 12th.

Col. C. Goddard,

care Time Telepraph Co.

Temple Court, City.

Dear Sir:-

We bed to enclose herewith our estimate No.07, A for the erection of a Central Station Edison Ricctric Jirht Plant at San Jose de Guatamals of 400 large especity of 1s candle power each, and amounting to \$23,445.01

We also send you map of San Jose de Chatamala with the

Vory truly yours,

Thomas A. Edison Constn. Dept.

В

avy

Enclosures

December 12th.

Charles T. Hughes, Esq.

Poughkoopsio, N.

Door Sir:-

We beg to enclose herewith our estimates Nes. 77, 77, A and 77, B, for the erection of an Edison Electric light Control Station Flant at Pouhgkeepsie, New York, and assuming to \$ \$23,040.40-\$40,607.42 and \$31,765,03, together with their attended maps.

In relation to action to be will also that the district we propose wiring, in the event of his estimate being accepted, covers 2,648 lights. Estimate 77,8 for 1,630 lights. By referring to the maps accompanying these estimates you will find the course of the street installation marked thereon. It will therefore be unnecessary for us to go into a lengthy companion, as it only remains for you to ghoose the one you consider beat mitted for the purpose.

In submitting those estimates it is of course understood that the local Company obtain all necessary permits for us to open strongs and lay our tubes, in accordance with whichever one they may accept, and we will not in any way be responsible for any failure to obtain those, which might provent our laying mains, as

shown on the map.

Trusting these will meet your requirements, we are,

Very truly yours,

Thomas A. Edison Constn. Dept.

By

Enclosures.

Lag

Congress of

agi

December 12th.

John Boskin, Esq.

6 ledger Building,

Phila, Penna.

Dear Sir:-

We have your letter of the 11th, inst., and in reply beg to say that if the speeds of both dynames do not vary much from what they are set up at and the resistance boxes are proportioned so that the load will divide according to the capacity, they will run perfectly together. We run then this way in our central station plants.

Very truly yours,

70 l

9

Charles T. Hughes, Esq.

Morgan House.

Foughloomsic, M.Y

Boar Sire-

We beg to enclose herowith plan of the central station we propose creeting at Youghloopaie, also estimate of daily running expenses and statement of probable profits on a \$40,000. capitalization, which latter shows an excellent percent for dividends.

We also enclose the remaining estimate for this plant,

Thomas A. Kdison Constn. Dept.

121

apr

Enclosures

December 12th.

0

Mossrs, Kont & Auerbach,

3 Broad Street, Dity.

Gentlemen:-

I understand the case of Smith vs. Edison is on the Calendar and will be soon reached for trial. I desire to associate with you in the suit En J. C. Tealinson. You will be good enough to allow him to examine all the papers, and consult with him as to the conduct, management and trial of the suit.

Vory truly yours,

20

December 13th.

W. S. Androws, Esq.

. F. O. Box 565.

Fall River, hass.

Dear Sir:-

We have your letter of the 11th, inst. in reference to the bolts for driving the two "Y" dynamos being too long.

The reason that those belts are of improper size is that

"the dyname has been set 11 34 too near the engine, and not in "accordance with our plans, which say 10' from center to center."

Would it not be possible to move those dynamos back 11349

If not, we would prefer having the belts respliced.

Yours truly,

Thomas A. Edison Constn. Dopt

Leen

December 13th.

E, H. Lord, Esq. Treas.

Lawrence, Mass.

Dear Sir:-

To have your telegram of yesterday instructing us to

In this connection we been to say that we always use a limit when an U 2 x 10 engine is driving this machine. At the Pourl Street station in this city we have run a 14 2 x 13 engine at 350 revolutions for seventeen consecutive days with perfectly satisfactory results.

The W 2 x 10 engine at lawrence would have to be run at shout 325, if you use 12° pulleys, and we do not consider that 325 revolutions per minute is too light a speed for this small engine, when we have obtained such results as above stated from the 12° x 13°. Purthersore, if you use 10° pulleys you will have trouble by the belt aliphing, inassuch as it does not form as moud a contact with that size of fulley as it does not form as form you will desire to use 10° pulleys we shall be glad to send them on immediately you sayse us, but we consider it withsable to mention the above facts before filling your order.

Thomas A. Edison Constn. Dopt.

...

Edison Machine Works

104 Goerck, St. City.

Door Sir:-

Roplying to your letter of the ligh, inst. wherein you state that it would be advisable to have a complete set of drawings for the Straight Line Engine. We beg to say that we have a comploto set made, and the letter sent you stated that they were making the patterns.

Yorym Truly Yours,

Edison Machine Works.

December 13th.

Porsonal.

W. S. Androws, Esc.

Fall River, Hass

Doar Sir:-

Can you give us any idea as to when the Fall River station will be ready to start? We are nowing that there is a quantity of electrical material which has not yet gone forward, but if you can make a start and introduce those fixtures afterwards it will be of yory great service to us financially.

We presume you have heard nothing from he Rich as to when Tiffin will be ready for you men. We have to-night asked him this question, and will adrise you upon receipt of his reply.

Thomas A. Edison Constn. Dept.

Single Cons

3

Documber 13th.

W. C. Smith, Esq.

542 Pearl Street, City

Dear Sir:-

Could you possibly come to this office to have an interview with me semutime to-day. Not me know by bearer what time we I may expect you, in order that I may be in when you arrive.

Jary

3

W. S. Androws, Esq.

Box 565 pall River.

Mass.

Doar Sir:-

We know y ur letter of yosterdays date in regard to williamsport and newberg, we wired you on the 11th, inst.that there were 4 feeders at Howburg. And yosterday we sent you a telegram, stating that there were 5 feeders in the Williamsport Installation. Since sending the latter telegram, we are in receipt of a letter from the Williamsport Co. stating that they have not yot secured a lot, and asked our indulgence until we hear further from them. In view of this fact we wired you this morning, to do nothing to Williamsport material, whill you were advised further from this effice. We will send you the information you desire at the carliest possiable moment.

Very Truly Yours,

Thomas A. gdison, Constn. Dep't,

Ву

007

December 13th.

W. D. Rich, Esq.

Hazloton, Penna.

Doar Sir:-

Can you tell us when the Tiffin station will be ready To for our ejectrical staff to commence work on the inside wiring?
We would like to start them on this work at the earliest possible moment. Will you kindly send us a jetter stating exactly the condition of the advancement of the central stations at Mazleton, Mt. Carmed and Wellefonte.

Yours truly,

Thomas A. Edison Constn. Dept.

apr

December 13th.

W. D. Rich, Esq.

Hazleton, Fenna.

Doar Sirt-

tion, one marked "A" having been propared from the Setch you sont
us giving the details of your proposed arrangement, and the other
marked "A" is one which has been propared in this effice.

By referring to these plans you will see that both buildings are exactly the same size, and the the same capacity of plant is obtained without increasing the length of either building. Were we to adopt the plan which you sent us and put in the engine and boiler (upon which we have made a cross) it would be impossible for the engineer to attend to his engine and look after his steamy We have marked with the letter "A" on our plan the possitions of the boiler and engine which we now propose to install, and by reference to same you will see that it is a much more convenient arrangement than the one you suggest. The only difference it makes in the interior arrangement of the station is to reduce the length of the office from 13' to 11' 4". Mr. Andrews' brings his wires in at the skylight, and you will see that there is plenty or room for electrical apparatus along the walls of the building and away from the dynamos. We therefore think it desirable that you

should edopt this plan, and shall be glad to have any comments you may wish to make upon it.

Very truly yours,

Thomas A. Edison Constr. bDopt.

ву 3-9

Elicioparos.

Doc. 13th

3

W. D. Rich, Esq.

earn Daison Blactric Ill. Co.

Hagolton, Ponna.

Dear Sir

We have your letter of the Oth, inst. in regard to build plan of Middletown and Pique. We believe that this style of setting is to be used only where Mituminus Coal is burned, we note your objections to this setting however, and shall be glad to have your use your own judgment as to the way in which it should be done.

Very Truly Yours,

Thomas A. Edison, Constn. Dopt.

Ву

on, consti



Docember 13th.

A. Stuart, Esq. Socty.

Cincinnati, Ohio.

Dear Sir:-

We have your letter of the lith, inst in regard to the extension of the Tiffin plant, and during the past few days have received all your telegrams urging upon us the necessity of shipping the material at once.

Your ideas as to the arount of work necessitated by this extension are altogether too small. It will be impossible for us to obtain the copper under two weeks, and a view of this fact we have wired you that we cannot keep our non there, as we understand from our Superintendent that all the pule lines at Tiffin will be finished on Saturday next.

We have wired you to might that the cost of this extension will be \$3,760.17, and we beg to knelless herewith our estimate for performing the work and supplying the material. Upon its acceptance, we will immediately take active steps to make the desired addition to your flast.

yr Rich is altogethor mistaken when he states that it vill not increase the cost of fooders, who extendion necessitates a new feeder and consequently additional electrical appearatus in 2

the inside of the station

Very thaly yours,

Thomas A. Edison Consth. Dert.

12.

Enclosure

()

H. C. Bolknap, Esq. Treas.

High) and Wational Bank,

How Burgh, M.Y

carsir:-

We have your letter of the 12th, inst., asking us for a list of prices for which we will furnish tubing and wires for sorgice, and in reply we bek to seate that we will supply you with this material at cost price.

The way the Fall Haver and lawrence Company did was simply to give us an open order to supply them with as many Services as were necessary, and we billed the material to them at the rate as stated above.

If you will give us a similar order, we shall be very glad to furnish you with whatever services you require. They containly should be jut in at once, as it will save a great deal of labor in the future, when you might justify have to contend with heavy frost.

Yours truly,

Thomas A. Edison Constn. Dopt

By &

December 13th. 3

Mossrs. Rergmann & Co.

202 Avenue B, City

Doar Sirs:-

In relation to the attached letter from measure. Forever t weighten, do you not thin it would be a paying business for you to carry a stock of say 1,000 lbs. of this material, for the jurpose of supplying our numerous central stations with what they required. They would consume considerable in the course of a year, and innamed as you could purchase it for fifteen contral pound and soll it for twenty five cents a paying, the enterprise yould remit good profit. Let us know if you will do this.

Yours truly,

Thomas A. Edison Constn. Dopt.

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Enclosuro.

December 13th. 3

Paul D. Dyer, Esq.

Tremont House,

Galvoston, Toxas

Door Sir:-

We have your interesting letter of the with, inst., and in relation to your obtaining of tions on lots we think it would be a good idea for you to get exact sixes and prices of as many lots near the center of each term as you can.

In regard to the amount y a are paying for your expenses at the present time, if you will lot us like how much it is in encours of the allowance made you, we shall be very glad to credit your account with the difference.

You have apparently missed sending us a portion of your letter or clse you have forgotten to sign it.

Have you over received the new form of special report,

Mn Insull sailed for Kuropo yesterday to be gone until the latter and of January. We Fromune you received his latter talling you to go home for christmas.

Yours truly,

Thomas A. Edison Constn. Dopt.

By au

Docombor 13th

3

S. B. Eaton, Esq. Prest.

Edison Electric Light Co.

65 Fifth Avenue, City.

Doar Sir:-

I have the pleasure behand you herewith account amounting to \$7,709.74, Being amount one my Construction Department, also account amounting to \$1,112.00 for sundry amounts paid by me on the Light Company's account.

In addition to the above there is the amount expended by me on electric railroad experiments, for which you alroady have my account, assuinting to 336,551 26, and also about 325,000 expended by me at the Edison Machine works in improving your dynamo machines, with the result of developing the cost on same of the types of dynamos about twenty five per cent, and increasing the number of lights obtained free the period machines about forty per cent.

with relation to my relified experiments, income as the inventions in connection therewith have been transferred to the Electric Hailrond Company, I presume my accounts in relation to this matter must stand every although by stating this I wish'it to be clearly understood that I expected that I have a valid claim

against the Edison Electric light Company for the amount I have

As to the cost of the dynamo experiments, in consideration of the kindness shown by the light Company in carrying my
stock for me, it is not my intention to ask them to reimburse me to
the amount referred to, more especially as the rendering of account
of this character is usually the cause of great irritation.

In this connection I may mention that I can now experimenting with
the object of increasing the capacity of the central station dynamo
but inacmuch as my means are limited I cannot conduct the experiments on any such scale as the importance of the matter would
warrant, and I would urge upon your birectors the necessity of
placing at my disposal \$30,000. For this purpose. Of course it is
very difficult to estimate the exact cost of such experimentation,
and I mention this amount as [2] limit and not as giving an indication that the experiments would cost as much.

I shall be glad if you will arrange to pay the small necount due (\$1,116,60), and my Construction Department account (\$7,700,74) at an early date, inhammen as the latter must of necessity receive additions or deductions from month to month.

I would suggest that the payment of \$5,000, on account

be made immediately,

very truly yours,

Ja.E.

Enclosuros.

December 13th,1883.

F. S. Hastings, Esq. Treus.

Dear Sir:-

In relation to the attached note, under date of November 19th, for %3,000., payable to days from date to our order, please make some payable to the order of Yhomas A. Edison, and debut our account with the amount.

Very truly yours, The Edison Hacking Works

. .

883-12-13

lac. 13th,

J. F. Bunn, Esq. J. P.

Tiffen, Ohio.

Dear Sir:-

We have your letter of the 10th, inst. in reference to wiring. We are of the opinion that you have made a great mistake by pursuing the course suggested by Mr. Stuart. Our experience has been, that it is a fatal error for the local Company to have anything whatever to do with the wiring.

In regard to lighting blocks, 44, 40, 49, and 50, we to day are in receipt of a tologram from Mr. Stuart, asking us to light blocks, 44, 46, 47, 40, but he makes no mention of block 50, we'll send to night an optimate for this work, in accordance with Mr. Stuart, telegram and if the sum is satisfactory we will order the material and have the work commenced without delay. You must understand that it is a very unsatisfactory thing to do work of this kind, without having an estimate accepted in the regular way. We have no doubt whatever but that our bills would be satisfactory, and accepted when presented to you, if we were to do the work upon that bases of understanding. But in our much as it is not the regular way of doing business.

we prefer to submit an estimate, and upon its accoptance we will proceed to make the desired addition to your plant.

Vory Truly Yours,
Thomas A. Edison, Constn., Dep't,

Thomas K. Indison

зу (

December 13th.

Spencer Borden, Esq.

P. O. Box 3311,

Boston. Mass

Doar Sir:-

We beg to achowlodge reposit of your favor of the 11th.

inst., and in reply would call your fatisation to the fact that

when you were in kew York last Wordester was one of the towns of

which you made a memorandum that you were to attend to in regard

to obtaining options on lots. In order that it maynot again

oscape your memory, we send you by this mail another chart of this

town marked with a circle, within thich it is desirable to obtain

those options. Upon receipt of this information, we will prepare

and submit estimatos.

Owing to the proces of with, and also on account of having to re-model the gaverhill estimate, we have not up to this writing been able to dispatch it, but if will be forwarded to you to-morrow man Portland we will send you early next week.

Yours truly,

Thomas A. Edison Constn. Dopt.

Dog -138th.

W. H. Winant, Esq.

Care Armour Bros. Banking

Kansas City. No.

Dear Sir:-

In further reply to your latter of the 4th, inst., we beg to say that we will require a lot 50 x100, for Control Station purposes. As the ground within the red circle on map anot you is so valuable, we would suggest as the next best point, to obtain a lot the northern portion, of blocks 48, and 49, and blocks 9, 7, 50, and 314

us in reference to dunning our pole lines, and we send you this morning another man, which is marked in accordance with your letter and we shall be glid to know if the same meets with your approvel. We also seed you another man, which has been marked with lines showing the proposed course of underground conductors, in case this class of conductor is considered more satisfactory than over head wires. We would like you to examine this chart, and give us information as to whether parallel could be obtained for opening up the streets upon which we propose to run. In connection with the above, we should be glid to hear from you as

time we remain

0.c. 1385h

Jun Druly Couch Dopt.

denmas City: No.

our Sir:-

In curtifying apply to your latter of the stle inches on come to may the may that we will empty a lot so when, for fourthal starting purposes. As the ground within the red circle on the respective to the continuation of the points of the fourthern portion, of blocks thank of the the portions portion, of blocks thank is and micely to be and all

. To are very mich obliged for the information you payo

us in reference to municipy our pain lines, and we send you this merening another many which is marked in accordance with your letter and we shall be gift to know if the same work with your approvant. We allow the marked with the pass affected the process of the conductors in the same affected the process of underground conductors, in this class of conductor is conductor and more shalloctory that over head wires. We would like you satisfactory and give us information as so whether promise could be obtained for opening up the streets from which we provide could be obtained noted in with the chove, we thould be placed to have nect in with the chove, we thould be placed to have nect in with the chown, we thould be placed to have nect in with the chove, we thould be placed to hear from you as

18.03-12-13

December 13th.

W. S. Androws, Esq.

P. O. Box 505,

Fall River, Mass

Donr Sir:-

We have your letter of the 13th, inst. in reference to pressure indicators, and in "oply beg to say that we differ with you very materially.

It is the easiest matter imaginable to keel this adjusted and we think that the more you work with them the better you will like them. Mr. Sprague entertained the same ideas in regard to them as you do when he first saw them, but he has since become thoroughly converted. We think you should wait and work with them awallo before you write them down.

In regard to having the conductors for inside work sent.

out in straight lengths, we can have any wire which has not yet

boon shipped cut in accordance with your letter, but if it has been
shipped it would hardly pay to bring it to kew York, have the

Amsonia people straighten it and return it to its destination,

In relation to running the 612 x 10 angine at 300 revelutions, we have at our Pearl Street station in this city run a 'la'2 x 13 ongine for sevention consecutive days at 350 revolutions.

December 14th.

J. F. Bunn, Esq.

Tiffin, Ohio,

Dear Sir:-

we beg to acknowledge receipt of your letter of the light, inst., and in reply would say that we are very much gratified to learn that you have made arrangements with outside parties for wiring. In your management of this the only point which does not meet with our approval is your having offered a premium to people as an inducement for them to take the light. We really think you will have cause to regret this.

Yours truly,

Thomas A. Edison Constn. Dept.

By 0 9

Docomber 14th.

3

Frod Catlin, Esq.

105 Broadway, City.

My Doar Catlin:-

Yours received. Johnson is fixing up a hose and a dynamo giving 2,000 volts to give an exhibition. He has measured the water stress and finds it about 550 chms, 2 2 section nor foot.

Very troly yours.

a07

December 14th. 3

7. S. Androws, Esq.

the carliest ressible mement.

Fall Rivor, Mass.

Doar Sir:-

In Mison has requested in to refer the attached latter in remark to regulators for the opera house at shandlin to you, with the request that you furnish drawings for those devices at

Yours truly,

Thomas A. Edison Constn. Dopt.

By a.O.J

Enclosure,

Docombor 14th.

Electric Tube Co.

65 Washington Street, City

Dear Sir:-

we have your lotter or the lith, inst, withdrawing your bids for the streetingsliation in connection with the following points, namely, Martford, Mayorhill, Uties and Governors Island.

In rolation to haverhill, we were on the point of sending an estimate out when we received your letter withdrawin; your bid. We shalltherefore be glad to receive from you atthe earliest possible mement another statement showing what you will charge to do this work, in accordance with the plans you already have.

Vory truly yours,

Thomas A, Edison Constn. 1

December 14th.

William Schwonl, Esq. Prost.

Mt.Garmel, lenna.

Door Sir:-

In relation to the extension of the pole lines at 0t.

Carmol and the alterations which you desire to be made in connection with them, we wired you this afternoon that the cost of making this change will be 3041.07.

We beg to enclose herewith our estimate No.78,P for this work, and upon its acceptance we will order the additional wire and other saterial and have the lines erected in acceptance with same. We also send blue print showing the projected alteration of the Kt. Carmel pole lines.

Yours traly,

Thomas A. Edison Constn. Dopt.

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a.07

Fralesan

December 14th.

9

John Hoskin, Esq. :

G lodger Building,

Phila, Fenna,

Doar Sir:-

In reply to your lotter or the 13th, inst. I be: to say that it will require two resistance boxes, and they should be connected so that both will move together, but detachable.

Yours truly,

Ja.E

December lith.

H. C. Mc.Cormick. Esq. Prest.

Williamsport, Ponna.

Dear Sir:-

Willyou kindly lot us know if we can cross with poles through the center of blocks B and C to the northern alloyin block D.

We received your telegram of this common giving location of central station.

We hope to merrow to see Mr. 7. Of Detwiler, from whom we had a tologram sating he would be in New York late to-night with the japers in connection with the Williamsport contract.

Very truly years.

Thomas A. Edison Const. Dept.

Dv.

0.07

December 14th

-3

John Ott, Esq.

202 Avenue F, City.

Dear Sir:-

Have you ever made up any more of that duplicating ink?

Yours truly,

Jai

December 15th.

The Armington & Sims Co.

Providence, 9. T.

Dear Sira:-

We beg to inform you that on the ula x 10 angine sent to rall River one of the fullays, we presume the regulator fullay, has only a 7° face, while the other hazan 8 2° face. As we drive from both fullays of this engine and use is belts in connection with them, it is necessary that both should have it a face, and it will therefore be necessary for you to furnish us with abother pallay for this engine in accordance with the above.

Yours truly,

Thomas A. Edison Constn. Dept.

By Q_1Q_1

Please hung the Bill forward To E

December 15th.

George P. Cross, Esq

Paserag, R. I

Doar Sir:-

photograph.

We have your letter of the 12th, inst., and in roply bon to say that for Edison would like to have you send him your

urs truly,

Pair Sec

Docomber 15th.

b. M. Osborne, Esq.

Auburn, N.Y.

Door Sir:-

Will you be kind shouth to send us the exact dimensions of the lot which you note on the chart of Auburn as the Sisson lot.

Thomas A Edison Constn. Dopt.

1 ao 0

Personal.

December 15th.

W. D. Rich, Hog.

Masleton, Jenna.

Door Sir:-

ion is of the pole line work done at Tiffin by Niblor. Is it all good substantial work and what idea have you formed in connection with that part of the installation.

Very truly yours,

76.E.



December 15th.

7. D. Rich, Esq.

Hazloton, Penns

Dear Sir:-

We bug to confirm our telegram of yestermay's date stating that the Williamsport confract had been closed, and under same cover we send you a plan of the Williamsport station, also a sketch showing its position in relation to let. You will notice that there are send alterations on this plan in connection with the stack. The dimensions as shown are correct, but the portion referred to is not drawn to scale. We will in a day or two send you another man drawn to scale.

We also send you a copy of our estimate, and wish you would be kind enough to fill out as accurately as you can the actual cost of each item.

We cannot as yet give you any information in regard to
the number of poles you have to secure, as the course of the conductors is still under consideration and will not be finally deended until next week. It would be as well for you to go to
williamsport at once and arrange about the material for your
building, and we will furnish you with the other information at the

carliest possible mement.

Yory truly yours,

Thomas A. Edison Constn.

Enclosure. F.

December 15th. 3

Frank B. Rae, Esq. Supt.

Commercial Telegram Co.

18 Broadway, City.

Doar Sir:-

In reply to your lotter of the 19th, inst, we beg to say that we will give you sevention cents appound for the wire you specified therein.

Please advise us if you will accept this offer.

Yours truly,

Thomas A. Edison Constn. Dept.

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December 15th.

James S. Reager, Esq.

care Tiffin Edison Electric Illg. Co.

riffin, oni

Doar Sir:-

We have your letter of the 1sth, inst., and in reply bor to say that we sincerely recret the dissippointment you have met with in connections with discounts from Bosses. Bergmann & Co. We should be very glad to do all in our power to assist you in obtaining the discounts you desire were it not for the fact that we have no voice whatever in the management of Bosses. Bergmann & Co's affairs. Our only connection with them is that we order material from them for our control station work, and we never have occasion to order such material as is used for housewiring and fixtures which is always supplied by Bosses. Bergmann & Co. to the local parties who do the wiring.

If you will allow us to make a suggestion, we would say that we think you would be perfectly justified in calling upon Mr. Shaw to make good his guarantee, and by this means reduce the cost of the fixtures to the point desired.

Again repretting our inability to assist you in the matter, we been to remain,

Vary truly yours, a Edien bush & gr

ocombor 15th. 3

Gardner C. Sims, Esq.

Providence, R. I.

Door Sir:-

We are in receipt of a letter from our Chief Electrical Engineer, in Andrews, and in referring to a bool of questions which we have gotten up in order to examine engineers desiring to obtain positions with us, he states that in each duse the said applicants for positions state that beiler should be caulted cold and that the A. S. engine should have a small lead. This is in direct opposition to the views we have entertained in regard to those subjects hitherto, and we address you in the matter that we may obtain you very valuable opinion.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Docomber 15th.

Frank S. Harr, Esq. Treas.

Sunbury, Ponna.

Dear Sir:-

We have your letter of the lith, inst., and in reply we wish you would very kindly ask your engineer at Sumbury to send us an exact report as to the frouble he experiences with the belt in question.

We are pleased to know that you have made arrungements

Very truly yours,

Thomas A. Edison Constn. Dopt.

QØ:7,

Decomber 15th.

liessrs, Herris & Rubinsur

. Hartford, Conn.

Dear Sirs:

We best to notify you that we togady withdraw all esta mates we have made up to this writing for the installation of an Edison Electric light Central Station Plant at Hartford, Conn.

Vory truly yours,

Ey 0,0,7

W. J. Jonks, Esq. Hanager,

Brockton, Mass.

Dear Sir:-

In regard to supplying you with two 400 light dynamos for the swockton station and taking back one too light dynamo, we beg to say that we will furnish them two machines with regulators, not them up, furnish and put in switches and do all work in connection with making the alteration for the sum of \$1,200.

This bid, however, does not include any change of main shaft or pulloys of ongine. We believe you are in consumication with hears, Armington & Sins in Mard to this latter change and that it is your intention to do that portion of the work yourself.

We enclose herewith a plan showing the positions of the degine and dynamos after the change is made. If you desire any further details in connection with our estimate we shall be glad

very truly yours,

Thomas A. Edison Constn. Dept.

Ву

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December 1.141

W. S. Androws, Esq.

F. O. Box odd,

Fall River, Hass

Door Sir:-

We have received your communication in reference to his George A. Hefmeyer, and the book containing his unswers to questions in repart to engines and believe came to hund to-day.

He appears to be fairly well posted, but yet will have to learn considerable before he will be thoroughly competent.

Will you ploase lot us know his ago, where he lives and what salary he is at the present time in receipt of, also his present duties and what salary does he expect to get from us, also what is his nationality?

We return to-night the book wherein he answers the questions referred to.

Yours truly,

Thomas A. Edison Constn. Dopt.

a 0 0

1883-12-15

December 15th, 1863.

Gustav Soldan, Esq. Supt.

101 Goorel Stroot, City.

Dear Sir:-

On the 18th, inst. we referred to you a letter from the Mestern Edison Light Company in remard to furnishing them with the new style commutators for "F" matchines, and we asked you to send us the price of this commutator and state of the same time whether you thought we could concede to their wishes. We to-day rind that you replied directly to the Mestern Kaison to. In ruture when we nake you to give us information, will you be kind enough to reply to our request. It is impossible for us to maintain the correspondence of this office unless we are allowed to answer communications which are addressed directly to us.

Yours truly,

Ja E.

Docombor 15th, 1883.

Gustav Soldan, Esq. Supt.

104 Goord Street, City.

We beg to sny, in reply to your letter of the lath, inst., that we shall of course have the drawings of the engine which the Straight line Company are now making patterns from It may be well for you to go up to their place some time in January.

Yours truly,

The Edison Bachine Works,

15 70

December Afrh.

E. li. Jord, Esq. Treas.

lewronce, tass.

Dear Sir:-

We less to ash a whoshes with seary thanks receipt of your letter of the lath, inst, emel. sing erect for 34,000, on account of the lawrence installation.

In renard to pressure and calors, we hope in a few days to be able to supply you with the improved style of indicator which has lately been setten up by in this on. These are perfectly reliable and will obviste the difficulties you meet with at the present time.

In remard to using our fairly, we wish you would prepare an exact statement or all the joints wherean we have been at fault, and which you consider should be righted by ur. We will then be able to take proper action in the matter.

Very truly yours,

Thomas A. Rdison Constn. Doit

Rv

ady

Docombor 15th.1883.

Gustav Soldan, Esq. Supt.

104 Goerek Street, City.

Dear Sir:-

Referring to the attached letter from Mr. P. E. Clarle, of the lawrence Company, will you please let us know if the amanture which burnt out at the Pemberton Company's Hill was defective and if the burning was due to such defect. Please answer this question to us, as we high to write Mr. Clambs on the subject ourselves.

Yours truly, The Edison Machine Works,

By Jag

Enclosure, 1

l'orsonal

December 15th.

3

I. C. Walker, Ecq.

Tiffin, Chic.

Dear Sir:-

Will you be kind onough to let us know what your opinion is of the pole line work down at Tiffin by Liblor. Is it all rood substantial work and what idea have you formed in connection with that part of the installation.

Vory truly yours,

December 15th.

I. C. Walker, Esq.

Tiffin, Ohio

Doar Sir:-

We have your letter of the 13th, inst., and in regard to the lumps which judge bunn has requested you to have sent forward, we have to-night written judge bunn to send us an official order, so that the established routine of our business may be sustained.

Yours truly

Thomas A. Edison Constn. Dopt.

E

(100 h

Docombor 15th.

Charles Y. Maite, Esq.

102 John Street, City.

Dear Sir:-

In reply to your letter of the 14th, inst., we beg to say that on account of the delay which has taken place in connecting with supplying us with the sulphate of zinc ordered by Mr. Edison, we were obliged to place an order elsewhere.

We shall, however, be filed if you will send us a sample and also send 500 lbs. to Thomas A. Edison, care Pergmann & Co., 2002 Avenue B, City.

Yours truly,

Thomas A. Edison Constn. Dopt.

By agn

W. S. Androws, Esq1

P. O. Box 505,

gall River, Mass

Doar Sir:-

We have your letter of the 14th, inst. in regard to the belts used in connection with the "Y" dynamos at Mall River.

In regard to commenting these bolts instead of riveting them, we adopted the former method of contact in order to step the noise, but insummed as our experience with essented belts up to the present time condesses their use, we will in future have them riveted.

The chemicals for Vall River were shipped either yesterday or to-day, and we are hurrying Bergmann & Co. on the meters.

In regard to carrying in stock at our contral stations a spare wrist pin stra; and bearings for the Armington & Sime' on inos, we will communicate with you later.

Yours truly,

Thomas A. Edison Constn. Dopt.

By a, O, J,

. [

W. S. Andrews, Esq.

P. 0. box 565.

Fall River, Mass

Doar Sir:-

In relation to starting the Fall River station, are you nware that br Edison desires to run this installation for about a day and a half without any lights shatever being cut in on the district. Dease send us a tologram stating when you will be roady to start, so that Mr Edison can go to Fall River Monday night if necessary.

Yours truly,

Thomas A. Edison Constn. Dont.

7883-/2-/5

Mossrs. Hergmann & Co.

292 Avenue B, City,

Doar Sirs:-

We beg to anclose herewith a letter from Mr. Androws
which he sent to us for perusal with the request that we should
cond it to you when we were through with it.

We consider in Andrews idea as to having an "A" and a "B" ampere meter a very good one. "Anald it not be advisable for us to whot these forms in future?

Yours traly,

Thomas A. Edison Constn. Dopt.

1,0,7.

Enclosuro, m

Paul D. Dyor, Esq.

St. George Notel,

Dallas, Toxa

Doar Sir:-

We have your consumications of the 10th, inst.

We have to-day forwarded to Dallas the special report

In relation to the assumt which should be to your credit in this office, we are having the matter investigated and will advise you later.

Yours truly,

Thomas A. Edison Constn. Dept.

Rv

00.0

R. Young, Esq.

Sy Hancock, Street.

Boston.

Dear Sir:-

I have your letter of the 12th, inst, in reference to a position in my Laboratory for the son of Mr. Adolph Satro.

I regrot to state that at the present moment I have all the assistance in my laboratory that I can use, but about the lst. March I expect there will be an opening, when I shall be pleased to hear from you again in reference to a position for your ward.

Very truly yours,

3

E. Buchol, Esq.

201 Conti Stroot.

New Orleans, 1a.

Doar Sir:-

execondingly that a former letter which I wrote you has apparently miscarried.

The painting came to hand saidly, and I can assure you that I am delighted with it. It is hanning in my office at the present time, and I consider it one of the finest pieces of work that I have soon in a long time.

Did you not make some request in your former letter in relation to a Phonograph? If you will repeat this I shall be only too happy to attend to it.

Again regretting that the transmission of my thanks has been so long delayed, believe me to be.

Yory truly yours,

December 15th, 1883.

W. H. Dwelloy, Jr. Esq. Treas.

Fall River, Mass.

Doar Sir:-

We have your latter of the uth. inst. in regard to the second "1" dyname supplied for the Flint Hills.

In regard to a hood on the aranture, it is not now our custom to supply hoods, and this one was consequently shipped with a canyass head. Ir, however, you desire us to supply a hood, we can make one and forward it.

Our Superintendent informs us that there were no parts of this machine missing at the time it was shipped, so that if any of the parts have not been received at the Plint Mills, they must have been lost in transit. The sachine which we sent you was not an old one. It would be impossible for us to supply our customers with old machines, imagnich as the moment a machine is completed it is sold and shipped.

Yours truly,

The Edison Bachine Works,

Ja E

S. B. Eston, Esg. Prost

Edison Electric Light Co.

as Pifth Avenue. City.

Doar Sir:-

We have the pleasure to enclose you herewith our estimato No.50 for the erection of an Edison Electric light Central Station Plant at louisville, ky, of 6,400 lumps empacity, and amounting to \$100,079.19, and we beg to call your attention to the fact that the Street Installation provides for 7,624 lights, or 1.224 more lights than the nominal capacity of the plant.

We also enclose estimates of daily running expenses and probable profits, and you will observe that the latter shows excollent dividends upon a capital of \$255,000.

In regard to your memorandan of yesterday's date, we box to say that it is not our custom to sign these estimates. If, however, you desire this one signed I shall be glad to comply with your wishes.

very truly yours.

December 15th.

Edison Co. for Isolated Lighting,

. Butchinson, Esq. Secty.

city.

Door Sir:-

we have made up to this writing for the installation of an Edison we have made up to this writing for the installation of an Edison Electric light Central Station Flant at covernors Island, R. Y. Yours truly,

Thomas A. Edison Constn. Dept.

Hy AOJ

.Docomber 15th.

Charles T. Hughes, Esq.

Morgan House,

Poughkoopsio, K. Y

Doar Sir:-

We ber to enclose herealth our estimate No.38 for the installation of an Edison Electric light Control Station Mant or 500 lamps capacity and amounting to \$10,103.24, together with map marked "A" showing the course of the mains and feeders in red and white lines.

You will observe that this estimate is for an underground installation, and that the conductors are for 558 lights,

We cannot send this estimate out without stating to you that we consider it one of the cheapest bids we have ever made for an installation of that size. Haverstraw is the most compact town we have yet had to doal with, and for this reason our estimate is a low one.

The few days we will sond you another estimate for a pole line installation, but as a permanent investment we should very strongly advise the adoption of an underground system,

At Figua, Chio we are now installing a plant of 500 lights espacity, and the amount of the estimate is \$10,031.49 You no doubt understand that the estimate in question was formerly sig. 676.40, but, owing to the Piqua Company being unable to run slong a cortain street, the lines have had to be changed, and necessitates the increase in the amount of the estimate. It is a pole line installation.

Very truly yours,

Thomas A. Edison Constn. Dopt.

Enclosure

cember 17th.

B. Shaw, Rsq.

Cincinnati, Ohio,

Door Sir:-

We have your letter of the 13th, inst., and bog to congratuate you upon having at last secured a let at Middletown, in

In regard to the new location saving considerable conductors and feeders, we beg to remind you that we already have our copper at Middletown for the conductors and feeders, based upon the assumption that the lot given us in the first place was to be purchased. Whe new location changes the size of some of these purchased, but to what extent we cannot at the moment tell, but we are having the figures made up, and if they accept our confract price, I shall of course lock to the Middletown Company to reimburse us.

We must protest against these lots being selected after our contracts are closed.

The outcome of the Fique and Middletown business will be that we will have on our hands a lot of wire that we cannot use possibly for some months, which will necessitate our loosing interest on the money invested in it, which is a considerable item.

In regard to the buildings at Piqua and Middletown, we would say that our engineer in computing the cost of the Middletown building calculated upon patting up a brick structure instead on

frame, as is mentioned in the estimate. It is our intention now to erect a brick building at kindletown, but the price we quote for the Piqua building is insufficient to admit of our adopting the same course there. We will erect a brick building at Piqua for the same price as we charge for the Middletown building, namely, \$2,210., or \$800. above the contract price.

In regard to the progress we are making in Penns., we ben to say that the Mt.Carmel building is finished, except the inside, the Pollefonte building is in the same condition and the Maxleton building will have its roof completed to night.

We have done quick work in these places notwithstanding the fact that the local people appear to be unable to see it.

We will have an expert wireman in Bellefente in the course of a few days.

You had better advise us by wire of your decision in connection with the brick building for Piqua.

· Vory truly yours,

Thomas A. Edison Constn. Dopt.

By Ja, E.

December 17th

M. C. Trumbane. Esq

Easton, Fenna

Dear Sir:-

In relation to your jostal eard asking about my alloged electrified health indicator, I beg to inform you that I have no such invention, and that the device which is manufactured and sold as "The Edison Health Indicator" is, in my opinion a complete fraud.

Very truly yours,

Ja E

December 17th.

James A. Blair, Esq.

Commercial Bank,

Tiffin, Ohio,

Door Sir:

We have your letter of Nevember 30th., and in reply bog to say that we were quoted massial rates ever the Jackawanna Past Proight line to Tiffin, and these rates were obtained for us by our froight broker, who get quotations from the Star Union Line, but as they were not us satisfactory as the former, we of course would not accept them. We would like very much to have been able to oblige you am ship our asterial by the Star Union line, and, at the time the subject was first brought up, we stated that if your Company would agree to pay the difference between the Star Union rate and the special rate quoted us by the Jackawanna Line, we would ship by the route you desired. You of course could not expect us to do more than this.

Very truly yours,

Thomas A. Edison Constn. Dept.

1110

y a y -- y da a san

Messrs. Bornmann & Co.

393 Avenue B. City.

Doar Sirs:-

We have your communication of the 15th, inst. in regard to sulphate of zinc.

In roply we beg to say that Mouses. Powers & Wolghtman
furnish sulphate of zinc which is far superior to that which
Mr. Chimnesh purchases. Mr. Chimnesh gets this material from Messrs
John & Pink. We ordered a large consignment of zinc from the
latter people which has proved absolutely useless, as it contains
a quantity of iron. It must be distinctly understood that you
will buy from Messrs. Powers & Weightman the chemically pure brand
and never change or try to get thesper stuff, as the chemically
pure brand is the only kind that you can use.

Woode not wish to guarantee anything further than that we expectively will jurchase our sulphate of sine from you, provided you feet as good a brand as can be getten elsewhere. Furthermore, we will instruct all local companies to obtain this material from you, and such instructions will be sufficient for you to control the trade.

Please let us hear from you as soon as possible, and

also inform us as to when we can place our first order with you.

Yory truly yours,

Thomas A. Edison Constn. Dept.

By

Dec. 17th.

H. C. Balkpap, Esq. Treas.

Edison Eloc. Ill. Co.

Newburg, N. Y.

Z ... K

Dyar Sir

will you kindly lot us know the exact condition of the Newburg building, we wish to approximate as closely as public the time when we can send our wiring experts tol commence work on the interior of the Station.

Voly Truly Yours,

Thomas A. Edison, Constn. Den't

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December 18th

Doutsche Edison Gosellschaft, Borlin, Gormany.

Dear Sirs:-

tion to dynamos tabog to say that our Company hore have stopped solling 25 light machines, as they find it does not pay to send a man a great distance and have him remain there some time.

The 50 light dyname is the lowest they sell, and we are not going to make any more 25 light dynames. The price charged fou for the last 50 light dyname sent, namely, \$250. F. C. B. New York, is the lowest figure I can place this machine at. It seems to me that ya you ought to be able to make them much cheater over there.

In regard to our accounts, I mailed you a few days ago a statement showing your indebtedness to me to the extent of \$2,560,05 Your remittance you mention in your letter of the 3rd, ingt, namely, \$495, has not yet been received by me, but will I prosume come to hand in a day or so. This leaves \$2,103,95 still due me by you, and maish you would very kindly, upon receipt of this letter, sond me a cable remittance for the amount, as the

2

prices which I gave on your material will not admit of my carrying the accounts so long on my books, and I require to use the money.

Yory truly yours,

20%

ecember 17th.

W. L. Garrison, Esq. Treas.

boston, haus.

Doar Sir:-

Reforming to our letter of the 5th, inst., with which we enclosed statement of account against your Company, will you very kindly send us a check for the amount, namely, \$1,827.42, as we require to use the money very urgently. We should like to receive this check perceptions.

Very truly yours,

Thomas A. Edison Constn. Dert.

В

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December 17th. 3

Messrs. Harris & Robinson,

Hartford, Conn.

Door Sirs:-

We have your lotter of the 15th. inst., englosing a notice of a meeting to be held in panbury this evening. We trust you will advise us of the result as this meeting will have in connection with the acceptance of our estimate, as of scarse you understand that to-marrow it express, and we would like to furnish you promptly with fresh estimates, providing you need them.

Yours truly,

Thomas A. Edison Constn. Dopt.

By 207

Docomber 17th.

F. S. Wastings, Esq. Treas.

Edison Electric light Co.

City.

Door Sir:-

Referring to the attached correspondence from Mr.

Dwelley, we begt to say that 150 sixteen candle lamps would be
plonty to send on to Fall River at the present time. If these
local companies were permitted to do so they would put in sixteen
candle lamps everywhere, whereas not one out of every ten could
tell the difference between the ten and sixteen candle power lamp
were they placed side by side. They should not be permitted to
distribute sixteen candle power lamps over the Pall River system
as they placed, and we strongly advocate only supplying the consumers with a limited number.

Very truly yours,

Thomas A. Edison Constn. Dopt

By aoy

Enclosure

Documber 17th.

Jamos Farris, Esq. Secty.

Pollefonte, Penna,

Doar Sir;-

We have your letter of the lath, inst, in regard to a wireman, and in reply bog to say that we hope in a few days to have our expert at Bollofonto to tale charge of this work. in the interim you might select a local plumber whom you think would be competent to take charge of this work, after being properly coached by our export. This would avoid any delay in the seloction of a man after our expert arrives in Bellefonte. We presume that you understand that it is our policy not to have the local company take any part whatever in the wiring of buildings for the Electric Light. The parties who have their buildings wired will be responsible for the cost of same to the plumber. whom our export will teach to do the work. . He will receive all nocessary instructions so as to make a regular business of it, and by this means the local company will avoid any trouble with parties in connection with the non-payment of their bills for wiring and fixtures. This coyrse we have adopted in other places. and our experience has been that it is the only proper method of conducting that branch of the business. Were the local company to do the wiring, after they had supplied the customer with light, in a great many cases, the said customer would refuse to pay his bill for wiring and fixtures, antertaining the idea that the local company would prefer retaining him as a consumer of light rather than take the fixtures out of his building.

In regard to lemps, we shipped your order on Saturday.

Very truly yours,

Thomas A. Edison Constn. Dort.

005

Charles P. Lyon, Esq.

Now Amorican Notol,

Circloville, Ohio

Dear Sir:-

We have your letter of the 15th, inst., in regard to furnishing wax local parties with information. We treat you will not attempt to quote any prices in regard to an electric light installation. It is impossible to approximate the cost of an installation in any town with Earcty, and we profer our convassors to discuss these subjects as little as lossible.

We have pleasure in sending you by same mail the bulle-

Yours truly,

Thomas A. Edison Constn. Dept.

December 17th. . .

Mosors, Markle & Hell,

03 Congress Street,

botroit, bich.

Door Sirs:

Under some cover we send that a map of Grand Haven,

Bich. In addition to supplying us with information in accordance
with the annexed form, will you be kind enough to examine carefully the course of our proposed street installation, which is
shown on the map by red lines. If there are any obstructions,
such as trees, telegraph or telephone poles, which would prevent
our adopting the course we propose, we should be glad to have any
suggestions you may think desirable to make in regard to alterinitives. The red circle on the map shows that part of the town
within which it is desirable to obtain a lot, and the best location is a near the center of the circle as possible.

Very truly yours,

Thomas A. Edison Cometn. Dort

By

ny

December 17th.

M. C. Belknap, Esq. Treas.

Highland National Bank,

Nowburgh, N.Y.

Dear Sir:-

Will you kindly lot us know the exact condition of the Nowburth building, as we wish to siproximate as closely as possible the time when we can commoned work in the interior of the

Very truly yours.

Thomas A. Edison Constn. Dopt.

By a O. J.

December 17th

9

W. A. Croffut, Esq.

359 West 23rd, Street, City,

Doar Sir:-

In relation to your communication of the 10th, inst.,
I hop to say that Mn Edison lowes town to-morrow ovening for
Wall River. He may return the latter end of the week,

Very truly yours,

1.9. PARC

New York, Docember 18th, 1883.

Sergone 85 Fifth Avenue,

My Dear Insull:

I should have setting you last wook, but I thought it better to wait until one Saturday had passed before doing so, in order that I might give you, a history as to how I got through the "black day". On Saturday Borning I had \$4,500. In the bank altogether. I went down to Hastings and got \$1,000. from him, Out of this I paid Brucesi \$1,000. and gave Bergmann \$700., as they were both very hard up. I paid the Machine works pay-roll and contracts together with our office pay-roll, also met a Machine works note, and yesterday I was advised by the Germania that the \$3,000. note, which I get from Wastings least Friday, had been discounted by them, so on Monday merning I came out sith \$4,346. In the bank, which will run me through all right this week.

hr Edison went to Fall River to-night, and the station is to be started to-merrow, and that means a remittance of \$20,000. from them. Mr. Edison will see that a check is sent to me promptly.

We closed the williamsport business on Saturday last.

As you understand we sent them the forms of agreement and one of those Mr. Edison signed before it left the diffice. The williamsport people closed the contract on the old basis, which was a point that Mr. Edison desired to avoid. The new canvass which we propured is ready, and they have a chart with the lines marked in accordance with this new map, and we are new trying to have

Immediately after you left here, I wrote again to Lord for that remittance of \$5,000, and on Friday received a check from him for \$4,000., and he said he would remit the balance as soon as he get it.

I wrote to Garrison yesterday to send us a check for the S1,800, still due upon Brockton, and hope to hear from him before Saturday.

I have to meet about \$4,300. on Saturday, but will have no trouble whatever in doing so, as prospects are good.

CANVASSERS. Dyer has completed his canvass of Galveston and is in Dallas, and from that point he goes to Shorman.
Wilbur has completed Atlanta and is in Mobile, from which point he goes to Noxville. Cooke is still with Markle & Hall, and lyon is just about through with his canvass of Circleville, Ohio, artor which he returns to Pennsylvania. I will see that your instructions as to the disposition of these canvassors after January list are carried out. We cortainly will require more help in this line.

There were some parties came up here from a town in Ponnsylvania near Register. Show had never been hear the town, nor approached any of the people in regard to lighting. The gentlemen of whom I speak had been around visiting Shamokin and

amount required for the above turposes. I was still \$400, short. go to the Bank of the Metropolis with me where we saw the Manager. and we arranged with him that I should sign a check, "Thomas A. Edison, by A. O. Tate", for \$400., the Edison Electric Light Co. by Mr. Hastings to guarantee the Exers signature, and they would lot me have the money. This I did and got through the day without any disastrous results more than a slight headache. In further discussion of money matters, you will no doubt recollect that the contract we made with the Fall River Company differs materially with any of our other contracts. The first payment in connection with this installation was ton per cent upon the signing of the agreement, twenty per cent on October 25th, twenty five per cent whon the installation was ready to supply light and the remaining forty five for cent when the installation had been in condition to supply light thirty days. The above mentioned ton per cent. namely, \$4,180,98, was paid upon the signing of the agreement; about October 26th, two other payments of \$4,000, each were made by the Wall River Company, the same being the twenty per cent referred to, and on the 27th, November Dwelley sent us his check for St, 500. which was a portion of the twenty five per cent that should have been paid when the installation was ready to supply light.

I will receive from Dwelley to-merrow a check for \$4,000., and this is the only payment that will be made on account of this installation until the 18th. January, when there will be \$17,128.00 due. You see by the arrangement made with these people that the greater part of the money, instead of being paid in when the installation was ready to supply light, does not come to hand until we have run it for thirty days.

Now in regard to our contract with the Amsonia, we own them on argoint of wire supplied for Fall River \$4,950.20, and seventy five per cent of that amount is \$3,718.05, which consumes the \$3,000 that will arrive to-morrow. I do not yet know the amount that the williamsport people into dremitting. They owe us \$13,000., and I fancy it will be at least half of that. I shall go to Mastings to-morrow and tell him that I want a good remittance on account of the Machine works on Saturday, and that I simply must have it. I can pull through all right, but will have to give Babcock a Wilcox A note to-morrow for the amount

I have a note due on the 12th, January for \$2,306. White the wo issued to Bergmann & Co. I have another on the 24th. for \$1,240., and there is nothing then until the 17th. Pebruary, at which time there is a small one for about \$520. If I bring t Babcock & Vilcox' note in about the 1st. Pebruary it will be all right, as at that time we will have been in receipt of the last payment on account of Fall River, and can meet it without troubl

Tiffin station will be ready to start up in about two weeks, which will remit a payment of 30,000. from that source. NT. Carmal will be ready to start at almost the same time, so you see as long as Mr. Edison is within reach I will not got laft in the money line. It will be a very fragid day when he leaves me in the same box as he did last Saturday, as I shall take care I have planty of checks so long as there is money in the bank to sustain them.

On the 19th, inst, we billed am the Societe Industrielle with S787. For material shipped them, and they new owe us \$1,332.21 We billed the London Company with \$450.50 on the same date, which makes the amount due us by that corporation \$820.59. This information I believe you desired transmitted to you.

In regard to the Williamsport, I forgot to mention when speaking of it that we will not issue any orders in connection with that plant until the full amount of the first payment has been made. We have a full list of the stockholders, and are to-flight going through brandstreets to find out how they stand,

CANVASSERRY I think I told you in my last letter that Cooke had finished with Markle & Hall, but we were requested by them to allow him to remain a while longer in order to complete a canvass of Adrian, Mich. He will be through there to-morrow, and as the light Commencanxious to have a report on Meriden, Conn., we will send him to that point, after which he can canvass Rendout and Kingston, N. Y. Lyon is at Pottsville, Penna. Dyer is on the point of leaving Dallas for Sherman, and Wilber is making a canvass of Knoxville, after which he goes to Danville, Va.

MACHINE WORKS. It is pretty hard work to get Soldan to turn out machines quickly, but we must give him credit for having made a good shipment on Monday last. He forwarded the Bellefonto. Mazleton and Mt. Carmel machines on that date, which were two "Y's each for the first and second places and two "S" nachines for the last. The Newburgh machines go forward on Friday next. Lawrence Company have ordered from us two more "is machines and another 14 2 x 13 engine. The former were shipped to them on . the 22nd, inst, and the engine goes forward to-morrow, together with the bedplate and washers. The bolts are already in the foundations which Rich loft propared. I received to-day a letter from Tord, which is to say the least amusing. You no doubt remember what a disjointed correspondent he is and that it is almost impossible to gather anything from his lotters. He kopt harping so long upon the string of "treat us fairly", that I at last wrote to him asking him to submit to us a statement of all the points wherein he considered we had failed to live up to our contract. In his letter received to-day he states that we must consider them (the Lawrence Co.) imbeciles, and complains about us having supplied him with 10" bolts, about the delay to his dynamos and the tardy manner in which his meters are being supplied. In reply to Mr. Tord. I informed him that we were using 10" belts in the same connection with other installations, where they gave porfect satisfaction, and we saw no reason why they should not prove satisfactory at lawrence. I stated that we sincerely rewested being unable to control Messrs, Bergmann & Co's affairs,

and that we were doing all in our power to make thom hurry forward his material. In connection with dynamos, at the time he wrote his letter, which was on the 32nd, inst., there must have been one "S" machine at the lawrence dopot, as it was shipped from here on the 18th. inst. On the 17th, inst, he gave us an order for two "If" machines and they went forward on the 22nd. On the same date he ordered the large engine, and it goes to-morrow. We called his attention to these facts without commenting upon thom, and in relation to his insolent remarks about competent parties managing the business at this endouf the line. I stated that we would be greatly obliged if, in future, he would kindly suppress any suggestions in regard to the manner in which our business should be conducted. You cannot imagine what a "damned" impertinenatiotter he wrote. By roply is very mild and has not yet gone out of the office, and to-morrow I will show it to Mr. Edison, I made no further statements in it, except as detailed above, but if Mr. Edison considers this unnecessary, I will not send the lottor. I wish you were hore at the present time to reply to it.

In regard to bruest, he is as usual in a chronic state of "hard upness". The Illuminating Co. owes him about \$3,000., and he cannot strike them for a cent. I have had to carry him through over since you left.

Last Saburday Mastings had to give bergmann consider.

"able money to help him out, but this Saturday I am going to make
him give me a good payment, and also make a good payment to Kruesi.

We have heard nothing so far about the Danbury affair, and our estimate in that connection expired some days ago, and they have not asked us to make a new one. I see by the papers that about \$10,000, of the Danbury steel has been subscribed.

Forry came in to-night in regard to be Batchelor's stock and he teld me that he had been unable to do enything since you left, and I have embedded this in a cable to you.

I think I have exhausted all points of interest, except one, this point is our friend Mr. Gilmore. It is now only about ton o'clock, and notwithstanding the fact that he has had a regular "picnic" since you left, he is growling like a bear.

Trusting you are enjoying yourself, I am,

Very truly yours,

Piqua

Dec. 18th.

A. Stuart, Esq. Soc.

Edison Installation Co.

Cinn. Ohio.

Dear Sir:-

We beg to enclose herewith form of agreement in duplicate, forthe installation of the Pique plant, in accordance with our estimate to. 45F, and the accompaning exhibit marked "B" showing the course of the conductors, and which is a duplicate of the map that was furnished you at the time the estimate above mentioned was submited and accepted.

In regard to the communication which we have received recently, stating that it will be impracticable for us to run along him to, we would say that the necessity of making this change in the course of our conductors, will increase the cost of the Piqua installation by \$2.752. For his reason we send you herewith two more forms of agreements, for the installation of a 500 light plant amounting to \$16,631.40 to the her with map marked *6* and showing the course of the conductors which are so arranged as to avoid running along Main St.

19

In relation to the latter chart we would call your attention to the fact that it includes 150 lights, more than the old one, the average burning of the Siqua installation is any least 4 hours. If you soll light in Piqua for 1 conts, whose extra 150 lights will themselves bring you in a disidend of \$2500.62 for the first year, which is within a small amount of the cost of installing them. If it is your intention to soll light for I instead of 1 per hour, these 150 lights would bring you in a dividend for the first year of \$2,000.75 or \$117 in excess of the cost of their installation.

If after considering the pove facts you desire to accept our bid, in accordance with the map marked "C" which is the one including the lights above referred to, please have executed the forms of agreement sent you herewith and specifying the amount of the contract, which is \$16,631.40. Also please be kind enough to send us a check for \$608 which is \$25 per cent of the amount of the increase.

we look to them to obtain for us the mecessary permits to run, our conductors in accordance with whichever chart they accopt, and we do not held ourselves responsible for any failure to obtain such permits that would prevent our creeking poles, and running

we shall be glad to hear from you at the parliast possible moment, as we desire to order forward the additional wire if our chart "C" as accepted.

Vary Truly Yours,

Piqua Docember 19th. 3

P. B. Shaw, Es

Cincinnati, Ohio

Dear Sir:-

We bon to acknowledge receipt of your telegram of the leth, inst. Instructing us to put in a brick building at Pique and accepting our price, namely, \$2,210, or \$860. over and above the contract.

We have given instructions to have the work done accordingly.

Yours truly,

Thomas A. Edison Constn. Popt

Ву

Electric Pen

December 19th.

John Ott, Esq

292 Avonue B, . City.

Doar Sir:-

Please male up about two gallons of the duplicating

ink, and notify us when it is ready.

Yours truly,

Ince)

December 19th.

H. O. Stratton, Esq.

35v0livor Street.

Boston, Fass.

Doar Sir

Tokeyo your lotter of the 13th, inst., and in reply beg to express my regret at having everlooked your fermer letter.

The duplicating ink is being prepared, and will be sent you in the course of a few days.

Vory trally yours

Jak

December 16th. 1883

Gustav Soldan, Esq. Supt

104 Guerck Street, City

Doar Sir:-

Bolow we give you a list of the machines we desire to have shipped on the days specified;-

Two "!" Hackines on the 26th, and two "Y" machines on the 26th, prox. to Hewburgh, N.Y.

Two "Y" machines on the 24th, prox. to Bellefonto, Penna.
Two "Y" machines to Walloton, Penna, on the 24th, prox.

Two "S" machines to Mt. Carmel, Penna. on the 24th. prox.

named, and if there is any delay in the Testing Department, we wish you to report it at once to us and we will have it remedied. Unless these dynamos go on the date specified we will be sortedly delayed in our work, and you must do everything in your power to have them forwarded in accordance with the above.

We send you an order to-day to ship two the machines to Lawrence. These should be forwarded on Saturday doxt the 22nd.

Yours truly,

The Edison Machines Works,

December 19th.

Sponcer Borden, Esq.

P. O. Pox 3,331,

Boston, Mass

Dear Sir:-

In relation to real estate in Portland, we beg to say that if it is possible to obtain obtions in the blocks bounded by Brown a Elm Streets on the one side and Cumborland and Compress.

Streets on the other it would make a considerable saying in the second copper to be used. A lot in the block bounded by Brown, Cumborland, Proble and Congress Streets would be preferable.

We will forward the Portland estimates upon the assumption that the contral station will be placed upon one of the lots selected from those alreads submitted, but if we can obtain a lot within the area mentioned above it will make a great saving.

Yory truly yours,

Thomas A. Edison Constn. Dopt.

12-2

December 19th.

Gardni C. Sims, Esq.

rovidenco.

co, R. I

Dear Sin:

We beg to acknowledge receipt of your letter of the 18th, inst. in reference to the valves of the 14 2 x 13 engines being bored for five inch steam pipe.

Wo also note your remarks in reference to our Piqua and

wo will send you by to morrow's mail a list showing the dates we desire the engines you have linda-construction for us shirted.

Many thanks for your statement in regard to caulking a boiler, also about the lead of your encenses. Do you consider it necessary for us to carry a spare wrist pin strap and bearings for each one of your energines that we have installed at any station.

Very truly yours,

Thomas A. Edison Comstn. Dpct.

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awy

Docombor 19th, 1883

Gustav Soldan, Esq. Supt.

104 Goorck Street, City.

Doar Sir:-

Are you doing anything about paper belts? Please send us the address of the party from whole you get the sample pulley for test,

Yours truly,

The Edison Machine Works,

By J.a. E

W. D. Rich. Esq.

Doar Sir:-

We are in receipt of a letter from the Treasurer of the I awronce Company stating that they want two more "H" machines and . the other 1412 x 13 engine, specified in our contract with them.

> Did you put in a foundation at Lewrence for this ongine? Yours truly.

> > Thomas A. Edison Constn. Dort.

December 19th.

W. D. Rich, Esq.

Hasloton, Ponna

Doar Sir:-

We enclose herewith a number of recognandations from the derivat begins to obtain a situation with us setting up machinery. He has been connected with the Straight line Engine Company, and he has seen excellent testimentals. If you require the services of such a person, please let us know, and return the enclosed papers, obliging

Yours truly,

Thomas A. Edison Constn. Dept.

By a.O.

Enclosure, a

Docomber 16th

E. H. Jord, Esq. Treas

Jawronce, Mass

Doar Sir:-

In reply to your latter of the 15th, inst, we been to say that the other "S" dyname with the extra 10" pulley was shipped to you yesterday.

We have sont the 12° and 10° pulleys, because we think you will find it advisable to change after running the 10° pulleys for a time.

We can forward the two ris machines early next week,
and we have ordered the la 2 x 23 engine, which we think can be
supplied promptly, but in regard to this matter we will write you
in a day or two.

Yours truly,
Thomas A. Edison Constn. Dept.

12.

LOG

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M. C. Bolknap, Esq.

Highland National Bank,

Newburgh, N.Y.

Dear Sir:-

We beg to achnowledge receipt of your letter of the 17th inst., and in reply would say that the necessary services for Now-bursh have gone forward.

Resers. Bergmann & Co. Will give you prices for sockets

In regard to house wiring, we would impress upon you the fact that it is very unwise for your Company to have anything whatever to do with this kind of work. When you are ready to have house wiring done we can send an expert to Newburgh, who will teach a local plumber or some such suitable person how to do it.

our experience has been that if the local company takes in hand such work as this the parties who have the wiring done will have, in a great many cases, has their bills for wiring unit of the light has been furnished, and then as a man our objections to paying these bills, entertaining the idea that the company would profer retaining them as considers and allow the bill to go unpaid, rather than take the fixtures away from them. If, on the other hand, these parties are responsible for the amount of their

wiring bills to some person who has no connection with your Compuny whatever, except having your approval to do this kind of work,
it will be impossible for the consumes to enter into a discussion
with your Company as to the payment of their wiring bills.
We advocate this course as a protection to your Company, and would
strongly advise your adopting it, inasmich as it has been perfectly
successful in other places, and in two or three towns where the
local companies disregarded our advice on this subject, they have
had trouble in the manner herein set forth.

As soon as you have applicants enough to warrant our sending on a man there, we will do so.

fours truly,

Thomas A. Edison Constn. Dept.

By.

201

December 19th

Messrs. Bergmann & Co.

292 Avenue B, City.

Door Sirs:-

We have your letter of yesterday's date in relation to the charge we made against your withing Department of \$362,34 for work ordered at Shamekin by your archiman, Mr. Johnson, and also comprising certain charges which the Shamekin Company deducted from our contract for the non-performance of work, in connection with the erection of pole lines.

Ve have read with interest your lotter to the Shamekin Company, and we cannot suggest any other way in which the matter can be discussed. We did not send you a bill for \$302. In order to effect a compromise, but we consider that, in order to make an equitable division of the loss sawtained by as all on this plant, we are perfectly justified in taking you to have that portion which directly concerns your work at that point. We have forwarded your letter to the Shamekin Company, and we have no commonts to make upon any discussion you may have with them, but our loss on our own work has been so very heavy in connection with this installation that we cannot consider any proportion which will have in view the placing to our condition a loss amount than \$302.34, in accordance with the bill sent you on the tovember

28th.

Very truly yours,

Thomas A, Edison Constn. Dept.

By

Dec. 19th

Messrs. Begmann & Co.

292 Ave. B. City

Dear Sir:-

Roplyimmic your lotter of the 12th, inst. in regard to discounts for bove 60., we belt to say that on Sept. 10th, we wrote those people telling they you would agree to furnish goods in your Catalogue to them at 30 per cent discount, excepting Sockets, Cut-Outs, and Switchet, and on those as an extra inducement, we informed them, you would agree to give a discount of 32 per cent. We informed them that your charges for boxing and cartage on same, would be ottra. These proposals we extracted from a litter which you sent us, agreeing to furnish goods to the Swiss Company, in accordance with the above.

Very Truly Yours

Ja.E.

C. H. Cooke, Esq.

Cooke's Hotel,

Ann Arbor, lia ch:

We send you to-day a supply of convassing blanks, which we desire you to use in Tuthie when submitting your canvass to this office.

When taking notes along the streets you may use a book, and during the day prepare these sheets, which are to be sent on here. We also send you herewith a sample sheet showing how those reports should be made out.

For your further information we will give you the following explanations:-

The column on the canvass sheet marked "Width in Feet" means width of building. Where buildings are isolated the distance between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters as is shown on the model canvass sheet. Every sheet must be numbered with the number of the block and the name of the street, and, when you canvass is completed, you should pin the four or more different

2

shoots show the four faces of each block, and then on a separate place of paper male an index of the entwess in the follow manner:-

1 11-2 3 3 3 4 4 4

If you require any further information in regard to this matter, let us know at once and we will send it on.

We wish to adopt this system at the earliest possible moment, as it facilitates work in our Map Department, and, consequently, saves money.

Yours truly.

Thomas A. Edison Constn. Dent.

ву СОГ

Englosuro

December 19th.

Charles P. Lyon, Esq.

New American Hotel.

Circloville, Ohio.

Dear Sir:-

In relation to your canvass of Wellsborough, Ponna, you give the number of lights burning in the hotels by stating that they will average so many for so many hours. We desire that you shall give detailed specification of each light burning in the hotels, as we desire to know how many lights burn in the office, halls, dining room, kitchen, bar, and also the togal number of rooms in the hotel, tegether with the actual number of hours each light burns in each separate room. This information we want in connection with every hall and building where there are any purticulars to be given. We do not want you to give the average, as we prefer to obtain that ourselves from detailed information. We shall also be glad if you will discontinue to name the street lamps, as they are of no interest to us and only cause confusion in your canvass.

When you begin entering you canvass on the sheets which will be sont you to-day, please pin the four block faces comprising one block tegether and them make an index as follows:- BLOCK. FAGES.

1 1-2
2 3

Please make any remarks in the "Remark Column" in black ink, oxcept for troos, which you had better make in red ink.

We trust you will pay particular attention to the instructions given you within, as any deviation from the rules we set forth will cause great confusion and dolay in our Map Department, which we particularly desire to avoid.

Yours truly,

Thomas A. Edison Constn. Dept.

By all

December 19th

T. H. Toall, Esq.

Syracuso, N. Y.

Doar Sir:-

Hy same mail we send you a map of Syracuse, N. Y., and in addition to supplying us with the information in accordance with the attached form, will you kindly look carefully ever the course of our conductors, as we propose running them, and let us know if there are any obstacles, such as high trees, telephone or telegraph poles, which would prevent our running along any point where the red lines are marked on the map.

In regard to a lot for contral station purposes, any kind of a lot whatever will do us as long as it is large enough, and which point will be deformined after you submit your report on options. As long as we can have run to but our plant in, it does not matter in the least whether the lot is on an alloy, and we would prefer a location which is not conspiduous as near the conter of the circle as possible.

In regard to those matters, please let us hear from you at the carliest possible moment.

Yours truly,

Thomas A. Edison Constn. Dept

Rur .

201

December 18th

3

G. W. Wilbur, Esq.

Post Office,

knoxville, Tonn,

Doar Sir:

In your canvass of Atlanta you have omitted to class on about one third of the dwellings. This appears to be a common occurrence with you, and we trust in future these deskils will not be overlooked, as they cause great confusion and necessitate our having to guess at information which should be reported to us by

Yours truly,

Thomas A. Edison Constn. Dopt.

I. C. Walker, Esq.

care Judge J. F. Bunn,

Toffin. Ohio.

Dear Sir:

We have your telegram stating that you will not be ready to leave tiffin until after tannary let., and in reply we bog to say that your statements are rather misleading.

We have a lotter from you dated the 12th, inst., in which you inform us that in your opinion at the present time it would be well to turn the work over to Messrs. Baxter's Brown.

If the present time is as good as any, we want you to turn the work over immediately and go to Hellerinte, Penna. It is our aim to keep you in one point as short a time as possible compatible with the efficient teaching of the lattice who are to perform the work after your departure. Please let us have an explanation as to how the matter really does stund.

In regard to your orders for material, inasmuch as we do not look to you for the payment of our bills, and as the material is ordered on account of the Tiffin Company, before we can supply it we must have an official order from an Officer of the said corporation.

We have written Judge Bunn in regard to the lamps he

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December 19th.

dosires ment to Yiffin, and when we receive the proper authority for making the shipment, we will immediately have them forwarded.

Kindly lot us hear from you as soon as possible in rela-

Yours truly,

Thomas A. Edison Constn. hopt.

By (1.0 7

December 19th.

Wostorn Edison Light Co.

Chicago, Ills.

Doar Sirs:-

In relation to the attached correspondence, we are informed by Mr Mutchinson, the Secretary of the Isolated Company, that these meters are for you. They have apparently been consigned to the Edison Company, 104 Secret Street. We have received no communication from you as to what they are for or why the shipment was made, and we await further particulars.

Yours truly,

Thomas A. Edison Constn. Dopt.

1 1

Enclosure!d.

G. W. Wilber, Esq.

P. O. Knoxville, Tenn.

Doar Sir:

which we desire you to use in future when submitting your can-

When taking notes along the streets you may use a book, and during the day prepare these should be the which are to be sent on here. We also send you herewith a sample sheet showing how those reports should be made out.

For further information to will give you the following explanations -

The column on the canvass sheet marked "midth in Foot" means width of building. There buildings are isolated the distinct between them should be paced as accurately as possible by you and noted on your report. The time should be noted in the time column, and the remark column should not be utilized under any circumstances for this purpose, but only for such matters is a is shown on the model canvass sheet: Every shoot must be minbored with the number of the block and the name of the treat; and, when your canvass is completed, you should pin the four or more different

shoots showing the for f aces of each block, and then on a separate piece of paper make an index of the canvass in the following manner:

1 1-2 2 3 4

If you nequire any further information in regard to this matter, let us know at once and we will send it on.

No wish to adopt this system at the nurliost possible moment, as it facilistates work in our Map Department, and, consequently, mayor money.

Yours Truly, Thomas A. Edison, Constn. Deb't.

Enclosure

Chief Elec. Engineer.

P. O. Box, 565 Fall River.

. Mass.

Doar Sir:-

Will you please let us know how the meters for newburg, Bellefonto, Piqua, Middletown, 11t. Carmel and Mazolton are to

be standardized, whether the "A" or the "B" meter, and oblige. Very Truly Yours,

Edison Haching Works.

C. E. Chinnock, Esq.

·257 Pearl Stroot, City

Doar Si

Could you very kindly send about 10 lbs. of sulphate of zinc to the Mdison Wlectric Illuminating Company, Fall Rivor, We ordered 300 lbs. of this from Mr. White, but up to this Mass. writing he has not supplied it, and we have had so much difficulty with bad material that we are afraid to send anything that we are not absolutely sure of. Mr. Edison is in Vall River at the present moment, and has telegraphed for this sulphate of zinc, and you would confer a very great favor upon us if you would express it Furthermore, if you could send on a couple of ounces of marine glue we should be deeply indebted. We have ordered some of this to be expressed from Messrs, Eimer & Amend, but inasmuch as a quantity which they sent to Lawrence sometime ago proved to be useloss, we wish if possible to guard against the same mishup at Fall River. We are making arrangements to have this gaue prepared' at the Testing Room.

We regret exceedingly to be obliged to trouble you, as we rear you will consider that we are imposing upon good nature, be but under the circumstances you are the only person to whom we can

December 20th. S

appeal to help us out of this trouble.

Yours vory truly,

Thomas A. Edison Constn. Dopt.

By D'MM

ويبية مربانج إيفظا أمريخ بجراب

Dec. 20th

M. C. Relknap, Esq. Sec.

dison Eloc. Ill. Co.

Nowburg, N. Y.

Doar Sir :-

We beg to ucknowledge with thanks your letter of the lost int., and wish you would be kind enough to notify us immediately the building has its roof completed.

Yery Truly Yours,

Thomas A. Edison, Constn. Dep't.

- 12

aos,

W. S. Andrews, Esq.

Door Sir:-

possiblio?

We send you helrowith blue print, of the Williamsport station. Ploase adviso us of electrical material as soon as

> Very Truly Yours, bras A. Edison, Constn. Dop't.

Dec. 20th. 3

W. D. Rich, Esq.

Helzelton, Pa-

Dear Sir:-

In ure to day in reseipt of a letter from the secortary of the Newburg Co., in which he states provided they have feverally weather, the walls will be up and ready for the roof timbers in sight days. We have requested these gentlemen to advise vs as soon as the building has its roof completed.

Very Truly Yours,

Thomas A. Edison, Constn. Dop't.

1:y (

aoy

December 21st

Mossrs, Borgmann & Co.

202 Avenue B. City.

Dear Sirs:-

We are this morning in receipt of a letter from Mr. Edison dated Pall River, and in it he asks us to instruct ou to be sure that two lasps with wire in control of them go with such indicator you send out, also that two feet of 1000 patitions iridium wire go also with each indicator extra. Mr. Edison states further that three of the spirit levels on the pressure indicators you sent to Pall River have the bubbles so long that they are utterly useless, and he complains very bitterly of your neglect in not having this work inspected before it goes out; he also says that one of the new field regulators there has a wrong number of blocks.

Kindly give these matters your attention.

Thomas A. Edison Constn. Dept.

3v ...

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Doar Sir:-

We have your letter of the 20th, inst., in reference to advising you about shipments of material, and in future will see that you are promptly notified when any consignments are made. Yours truly,

Thomas A. Edison Constn. bDept.

December 21st

Mossrs, Waterhouse, Winterbotham & Harrison,

1. New Court, Carey Street,

lincolns lnn, W. C.

Jondon, England.

Dear Sirs:-

t have your lotter of the 4th, inst., tegether with instrument appointing Messrs. Theodore Waterhouse, William Howard Winterbothem and Richard Lake Marrison my Powers of Attermey.

I have signed same, had it duly attested by a Notary, and also had attached to it the contilicate of the English Consul General, and return the same by this mail, under separate cover.

Yours very truly,

Dar

December 24th.1883.

Gustav Soldan, Esq. Supt.

104 Guerck Stroot, Caty.

Doar Sir:-

In reply to your lotter of the 21st, inst. I bog to say that it is my opinion that you had better set a blower. Hav you not got one at the Works which will answer? We use a blower at the Pearl Street station,

I return herewith Manuscript Tetter to you.

Yours truly,

The Edison Hachine Works,

ВЗ

I a E

Enclosure, C!

Docomber 24th.1883.

Mossrs. Macpherson, Willard & Co.

Bordentown, N.J.

Doar Sirs:-

To have a lotter from our Superintendent, Mr. Soldan, in which he complains of the very slow mamner in which you deliver custings to the Machine Works. Could you not arrange to deliver these more promptly, as the non-receipt of them holds buck our central station work, and imposes upon us the necessity of carrying a lot of goods which we could otherwise dispose of.

Tours truly,

The Edison Machine Works,

y yas

December 24th.

Frank B. Rac, Esq.

eare Commercial Telegram Co.

18 Broadway, City.

Dear Sir:-

We have your letter of the lith, last, confirming your accortance of our effer of seventeen cents a pound for 1,000 lbs, of copper wire, which please be kind enough to ship to Thomas A. Edison, 202 Avenue B. City.

We will pay you ton conts per pound for couplings.

Yours truly,

Thomas A. Edison Constn. Dept.

B

60 J

W. D. Rich. Esq.

Bollefonte, Penna,

Dear Sir:-

We send you to-night under separate cover blue prints of Mt. Carmel, Hellefonte and Hazleton, which are to be used by the wiremen who have charge of the erection of the pole lines. All information necessary for these parties to have will be found attached to the charts.

Yours truly,

Thomas A. Edison Constn. Dept.

Decembor 24th.

. H. Pofinger, Esq. Prest.

Amorican District Tolograph Co.

How Orleans, Ja. "

Doar Sir:-

In regard to the map of New Orleans, soft you under sonarate cover this date, in addition to supplying us with the information in accordance with the attached form, will you kindly examine the course of our proposed street installation and let us know if there are any alterations in same which, in your opinion, it would be desirable to make, and very much oblige.

Very truly yours,

Thomas A. Edison Constn. Dept.

B

Enclosuro

December 24th.

Goorge D. Beryamin, Esq.

Dixon, Ills.

Doar Sir:-

I have your latter of the lith, inst, in reference to utilizing electricity for wood cutting, and in reply I beg to say that this experiments has several times been tried, but the idea has been abandoned, as the carbon of the wood rots the platina,

Very truly yours,

George H. Bliss, Esq.

Chicago, Ills.

Dear Sir:-

We have your letter of the leth, inst. in reference to an ampore indicator, and consider it advisable for you to use one, Mosors: Hergmann & Co. make them, and you should order one to show load and graduate it from zero to 275 amperes.

Doc. 24th,

Henry C. Mc. Cormick, Esq. Prost.

Williamsport, Penna.

Dear Sir:-

We have your latter of the 19th, inst. in reference to our map submitted to you by Dr. T. C. Detviler having been accepted as the skihibit "A" referred to in the contract between us. and we boff herowith to confirm our approval of same.

wardly to Point Street, northwardly to Fifth Street, westwardly to the Lines as running quatwardly to Point Street, northwardly to Fifth Street, westwardly
the hallow beginner Grace and Edwin Streets and parallel to
Gampbell and Malnut Streets, and southwardly along forst alley
south of Harkot Square from William Street to Academy Street.

In relation to this contract, we are still waiting to receive from you the first payment of twenty five per cent of the amount of the same, and which first payment is \$13,306.44. We have all our orders for material ready to send out, but until we receive the above emittance fromyou we will be unable to do anything in reagrd to forwarding the necessary material to commone week, inasmuch as we have to pay a certain percentage on the greater part of our orders attthe time they are submitted

Vory Truly Yours,

Guch Dept

1883-12-24

December 24th.

W. H. Dwelley, Jr. Esq. Treas

Fall River, Mass,

.

Doar Sir:-

I understand that the engineer allowed the wrist pin of the engine to get het and you had to shut down. This is pure carolossness, no matter what the engineer says.

ours truly,

Dan

H. H. Doubleday, Esq.

P. O. Box 565.

Fall River, Russ

Dear Sir:-

Can you tell us how soon witch will be through with the work he is doing at Mall River? As soon as he is prepared to lone lonve there, we should like him to come to some to New York, as we desire to secure his services in connection with other installations,

Vory truly yours,

Thomas A. Edison Constn. Dept.

Ву

Docombor 24th.

A. Stuart, Esq. Secty.

Cincinnati, Ohio

Dear Sir:-

We have your latter of the 20th, inst., and await the decision of the lique people in reference to the change of the pole lines at that place.

We have received a communication from an Shaw in regard to brick buildings for future estimates, and will comply with your wishes.

Yours truly.

Thomas A. Edison Constn. Dort.

...

William Schwenk, Esq.Prest.

"t. Carmel.

Doar Sir:-

Upon receipt of your letter of the lath, inst, we wrote to Mesers. Bergmann & Co. to hurry forward your material, and they replied to us that they would use the utmost despatch.

In regard to a wiring outert, our man will be there in the course of a week or two.

Yours truly,

Thomas A. Edison Constn. Dept.

:3

E. H. lord, Esq. Trons.

I awronco, bass.

Door Sir:-

We have your letter of the send, inst., and in rorly bor to say that the othere's machine was shipped to you on the luth, inst., and we wared you to that effect.

In regard to the belts you are using in lawrence, we well call you attention to the fact that we are using 10° belts in the mane connection at other places and they are giving perfect satisfaction. We therefore see no reason why they should not prove satisfactory at lawrence.

On the 15th, ingt, you asked us to supply you with two more 'm' dynamos, and they were shipped on the 32nd., for which we enclose bills of lading. Tou also asked us for another 142 x 13 engine, and this will be forwarded either to-morrow or the next day, also the bedplate and wishers?

We instructed years bergmann a Co. to send you some of the new indicators on the 17th, of the present menth, which was the earliest date we could listle such an order, on account of the appliances not having been completed until a few days prior to same. We regret that we have not sufficient control over Mesors. Borgmann & Co's affairs to insure sore prompt delivery of orders

placed with them on your account,

We are sorry you considered it necessary to write us in such a tone as that embodied in your communication of the 22nd.

inst., and we shall be obliged if, in future, you will kindly suppress any suggestions as to the sanagement of our affairs.

We are duing all we possibly can for you and we do not feel that you are justified in writing as fotters of this nature.

Vory traly yours, Thomas A. Edison Constn. Dept.

By Zale,

Enclosure, d.

New York, December 26th, 1863.

65 Fifth Avenue.

Samuel Insull, Jr., Esq.

2) Burton Croscent,

I-ondon, W. C. | England.

My Dear Insull :-

We have been daily expecting an autograph communication from you, but up to the propert them the only thing which has come to hand is a cablegram, from which we have ascertained that you are sojourning in Paris.

In relation to the letter think you wrote going down the May for Major Esten, I enclose herewith dopy of a communication we received from him in reply to the one you bent him. We have done nothing whatever in the matter and are helding it until you return.

The Pall River station was started very successfully on the lith. inst., and has been running very smoothly ever since.

Andrews and Conant wone to fiftin to dight to commonce werk there on the inside of the station. Mt.Carmel is ready to be wired, and Hellefonte and Mexicton will be ready on the 1st.

In my last letter I told you that the williams or contract had been closed, but that the street installation was under consideration. That Company have agreed to accept our map in accordance with the new canvass and last determination. This determination is a much cheaper one than the old one, notwithstanding the fact that we included about 2,000 feet more mains. The above Company have not yet paid the first instalment on account of their contract, but I am to-night in receipt of a tologram from them in which they state that the money has not all been paid in, but that they will send a check to-morrow or friday for a portion of it.

In-regard to finances, possibly a history of the way I had to "skin" through on Saturday last will interest you, When Mr. Edison left here on Tuesday he promised me he would be back Priday night. I have tried to impress him as much as possible with the necessity of being here to sign payroll checks, and he seemed to take it all in. I got three checks from him on the Cormania payable to my order, and feeling confident that he would roturn I disposed of two of them, in fact I had to dispose of these as the payments were necessary, one on account of the Machine Works and the other for bruesi, who is frightfully hard up. Saturday morning just about when I was expecting Mr. Edison to arrive and opening my mail you can imagine my horror upon receiving a note from him dated Fall River saying that the snap was booming, that he was going up to Haverhill to try and close that up and would not be back until Sunday. Thad about \$3,400. In the Germania I only had \$2,000. I had a check for \$1,500. for the Machine Works which I could not deposit, as I have no power in that connection with those works, and in the Bank of the Metropolis I had about \$1,000. I stood the shock with Christian Fortitude and bravely went for the mail again, where I came across a chock for \$1,000, sont most unexpectedly by Garrison in part paymont of the Brockton extras. This check was for Thomas A. Edison,

Sunbury, and wanted us to close a contract with them without having a cunvass made, and in fact without ever having before seen a representative of the Edison Electric light Company. The same thing is reported from Circleville, where the people say that they cannot wait for a canvass to be made and want us to go ahead and put the light in without it. You see that the "snap" is going to "boom" tremendously next year.

Wit Edison has gone up a posint and reached my figures, and is now firmly of the opinion that we will do \$3,000,000. worth of work guring 1884.

STATIONS. Tiffin stable is ready for the wirement to go to work on the inside, and indrews will have his men there in a few days. The pole lines are all completed, and Hibler goes to Hellofonte to put up the lines there immediately. The Mt. Carmel building is completed, and the machinery is being set. Bellofonte is in the same condition and the Hazleton building had the roof completed to-night. Nich his got a good man for pole line work at Mt. Carmel, and we will not be delayed in this matter at all the Middleton building is in the course of erection. You will remember, no doubt, that the about allowed for this building in the estimate was \$2,210., and the estimate at attend that it was to be a frame structure. When lich was here, on Sunday last, I discussed the point with him, and decided that on account of brick being so chasp at Middletown It would create a much botter impression if we were to erect a building of this material, and I

gave Rich instructions to this end.

I had a letter from Shaw asking us to put up a brick building at Piqua. The amount allowed in the estimate for this building was only \$1,350., and it was to be the same size as the Biddletown building. I wired Shaw that we would creek a brick building at Middletown, and that we would put up a brick building at Piqua for \$2,210., the same price as the former. To-night I have a telegram from him accepting the figures, and I have wired Rich accordingly. The foundations of this building are being put in at the present time, and Rich says that there is a good margin on these figures.

Major Eaton sont up a lotter from Mr. Hoffinger of Now Orleans, and the prospects of closing this contract are excellent. They have ever half the capital stock subscribed at the present time, and the affair is almost as good as settled.

St.louis, from Provision's report which the Major sent up to-day, looks a little "blue" again, but this will eventually go through.

The regard to the Danbury installation, you will recollect that this was one of the estimates which we made before we discovered that we were about five per cent out on our general expenses. The day after you left T asked Mr. Edison if it would not be a good idea to give Harris's Robinson six days to close out that business, and if they failed to do it in that time the ostimate was to become yord, and a freething substituted.

lie approved of the suggestion, and to-morrow the Danbury estimate gives up the ghost. - They had a meeting in Danbury last night, the result of which, in connection with the acceptance of our estimate, has not yet been communicated to this office, but I do not anticipate the acceptance of it. I hope you will endorse this action, us, in my opinion, we have been working for love long enough and are inking justified in taking the proper means to protect ourselves in the future.

Ecfore you return we will have all the plants now under way running, I think, without any exception.

Everything has gone along value a hitch since your departure.

The shorthand man you engaged has turned out to be of no use, and I have arranged to get additionan. I will have him properly broken in before you come yet. He is to come at the same figure as the man who leaves is setting.

I cannot at the moment shift of any other points of interest, but I will write you regularly now every few days, and keep you thoroughly posted as to what it going in.

kruesi came to me the other day and took me into a corner very confidentially. I hoticed that there were tours in his eyes and that he was very much egitated, and he asked me if I had ever been connected with any machine works, and upon informing him that I had, he wanted to know if patterns were regarded in a wallable asset!!!!!!

Trusting that you may have a very Morry Christman and Majpy New Year, which is sterectyped, but none the less sincerely, and also conveying the same wish from our friend Mr. Gilmore, who since you left has "kicked" like a mule against working on Sunday, bollove me to be.

cry truly yours,

Samuol Insull, Jr., Esq.

21 Burton Crescent

London, W. C. England.

December 20th

Sponeer Borden, Esq.

P. O. Box 3311.

Boston Kose

Doar Sir:-

I have your letter of the 24th, inst, in regard to Mr. Bancroft, and in reply beg to say that I have written to that gontleman complimenting him on the able manner in which he performed his work at North Adams.

Very truly yours,

December 20th.

Mossrs, Alden & Sterne,

2 Wost 14th, Street, City.

D 11000 24011, D0100

Door Sirs:-

In reply to your communication of the 20th, inst. I

bot to say that we had to find the lots to get up our specifica
tions. The company cannot de snything until the specifications
and plans are ready, and this will take about two menths.

Yory truly yours

Jan 1

W. S. Androws, Ess.

Tiffin, Ohio.

Dour Sir:-

We are in receipt of a lotter from Mr. Rich in which he says that the Ht. Carmol station is ready for wiring, and that Hazleton and Bellefonte will be in condition for your men on tho 1st. January.

You will have to make some pretty lively moves to take those all in on time.

Yours truly,

Thomas A. Edison Constn. Deut.

December 20th.

J. F. Runn, Esq. V. P

Tiffin, Chio.

DeareSir:-

We referred your letter of November 30th., in regard to
the paragon cable, to Br. Walker, and we have informed him that wher
wherever parties are willing to take the risk as regards the wire
being approved by the Underwriters it is all right to supply them
with it. The advantages afferded by the use of this cable make
it a much more desirable article than any other wire in practice
at the tresent time.

Very truly yours.

Thomas A. Edison Constn. Dept.

121

avy

December 26th.

W. L. Carrison, Esq. Troas.

P. C. Dox 3627.

Boston, Kass.

Dear Sir:-

In regard to a communication which we received from you some time ago in relation to a Gromwell heat Controller, we "referred the matter to our Superintendent, Mr. Rich, and in reply "he states that the day before he loft Fall River he received a let-"ter from the Gromwell bros. about the heat controller at brock-" ton, saying they were ready to take it out if it was not satis-"factory, and if it was satisfactory they desired to be paid for it. "Mr. Rich immediately wired Mr. Johks asking him if the heat controller had been tested, according to the agreement made with the Cromwell Bros., which agreement was to have the coal carefully waighed and they to fire the bubber one week and our engineer to fire it the next week, they to fire it the third week and our ongineer the fourth week! Then the figures were to be submitted to us and, if it appeared that they had saved five per cent over "the old style of damper, we were to take the controller and pay" the amount, otherwise they were to remove it at once and put the brick work in as good condition as it was prior to the introduction of the heat apparatus.

Er Jonks reglied that they had not weighed the coal, but that the engineer thought it saved fuel. He Pich considered that such a test would not justify the purchase of the apparatus, notwithstanding the opinion of the engineer, as he had heard there party may previously that he had a very foor opining of the damper, and stated that unless they could comply with the terms of the agreement he would not jurchase the heat controller.

If the Grounvoll Bros. still wish to fulfill the conditions of the contract, our Superintendent will receive their figures and give the matter due condideration.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Edison, T.A

December 20t

D. H. Burrell, Esq

Little Falls, N. Y

Doar Sir:-

I have your letter of the 21st. inst. in regard to separating cross from milk, and in reply beg to say that I have not forgotten the matter, and just as soon as I get my electric 1 light affairs in shape I am going to work up several industrial contemprises, of which this will be one,

Very truly yours,

Jah ")

December 20th.1883.

Gustav Soldan, Esq. Surt.

104 Goerek Street, City

Doar Sir:-

We enclose herewith a letter from Mr. Dwelley in reference to the Flint Mill installation.

Please have the smitch would and bolts he speaks of sont forward immediately, together with two hors tracks of uniform size to correspond with those of the other "N" machines. This installation is an important one, as we expect more orders, providing it is satisfactory, and we will you to pay particular attention to the statements and requests made by the Dwolley in this letter.

Yours truly,

ŝν

7

ThomasisonRHasbane Works,

Enclosuro.s.

December 26th

3

R. Rogers, Secty. Pro Tem,

The Edison-Gower-Bell Yelophone Co. of Europe, Itd.

london! E. C. England.

Doar Sir:-

I have your letter of the 7th, inst., and in reply beg to say that I have sont you this day by registered mail my Italian Tolophone Patent No. 9791, granted February 8th, 1878.

Please ad nowledge receipt and oblige,

Very truly yours,

Dan

Goorge W. Wilber, Esq.

Post Office,

Inexville, 70mm

Dear Sir:-

We have your lotter of the 23rd, inst., and in regard to the width or buildings we ben'to say that the red figures in the model canvass sheet sent you represented the distance between isolated buildings.

In relation to trees, please give the number on each block face, and if evenly distributed, say so, and if not evenly distributed, morely montion the fact without giving the distance between each the lack l, C.D. means wiret class healing.

After yoursend in your first ednyage in accordance with the new process, we will be able to tell exactly upon what points you are deficient, and you will be immediately advised as to where corrections should be made.

We note your remarks in regard to the difficulty you have in obtaining money by check, and in future we will oither send it by postal order or will telegraph it to you, waiving identification, which will obvinte all difficulties each time you arrive in a new town.

please wire us at once your hotel address. When you

wore in Mobile we had two or three tolegrams roturned to us with the statement that George W. Wilbor was unknown in that city.

Yours truly,

Thomas A. Edison Constn. Dept.

Ву

109

December 26th.

H Ward Joonard, Esq.

Layrence, Mass

Door Sir:-

In reply to your letter of the loth, inst., wherein you referred to printed answers to questions on meters \$e., kr. Salson states that he gave you a copy himself before the six copies were sent to Brockton. Mr. Edison states that he left Brockton before these latter copies arrived, and that he certainly gave you one and told you to mark your name in it. We wish you would make a thirough search for this, known, as it is very desirable that It should not fall into other hands than those of our electrical complexees.

Yours truly,

Thomas A. Edison Constn. Pept.

By Olly

December 20th.

W. L. Garrison, Esq. Treas.

P. O. Box 3027,

Hoston, Mass.

Dear Sir:-

We beg to acknowledge with thanks receipt of your latter of the 21st, inst, enclosing check for \$1,000, on account.

We communicated with Mr. Jonks to-day in ropard to the change you desire made at Brockton, specifying the material we propose to supply you with. Mr. Jonks will no doubt communicate with you on the subject.

Very truly yours,
Thomas A. Edison Constn. Dort.

Ву

alog

December 20th.

I. C. Walker, Ess.

Tiffin.

Doar Sir-

We have your letter of the 21st, inst., and in regard to the shirment of material in connection with the wiring of buildings if you intended Messrs. Baxter & brown to pay for the material which was shipped to Tiffin, you should have instructed them to sond us an order. We have no doubt that it would have been all right to ship the mater on your order, but we much prefer to have writton authority from the parties who have to bear the expense of the material, which avoids any discussion that might take place as to who is responsible for ordering it.

We are very anxious that you should leave Tiffin as soon as possible, but on the other hand do not desire you to go to any other point until you consider Messrs, Baxter & Frown theroughly competent to take full charge of the Tiffin work.

In regard to the new cable, where parties are willing to take the risk as regards insurance it is all right to supply them with it.

Yours truly, Thomas A. Edison Constn. Dout.

December 26th.

E. H. Jord, Esq. Treas.

Lawrence, Mass.

Doar Sir;-

In regard to a communication we received from you some time since, wherein you state that when you fod your boilers with cold water the steam was so damp that it would not do more than war half duty although the pressure remained the same, and wherein you claimed that the trouble was in connection with the injector connected with the boiler, we referred these statements to our Superintendent, Mr. Rich, and in reply he says that it is impossible for any ingector to feed cold water into a boiler under a pressure of 190 heat, which is the lowest temperature, as indicated by the thermometer attached to the injector. He further states that the connection with the new boiler is made precisely at the same point as on the boiler which was first set, and that the real trouble is that the engineer carries the water too high in the stoum drum. If he would adjust the injector so as to gauge a constant food according to evaporation and not allow the water to rise above the second cock, you would find no cause for complaint. neither would there be any danger of bursting the cylinder heads or syphoning water from the boller. Mr. Rich says that he is confident this is the trouble at lawrence, as the same thing was met

with at Prociton with the first engineer we employed there.

Our Superintendent will visit lawrence shortly and explain these matters to you in person, and endeavor to adjust the difficulty of with at the present time.

Very truly yours,

Thomas A. Edison Constn. Dept.

W. J. Jenks. Esq. Managor,

Brockton. Mass.

Dear Sir:-

Replying to your letter of the 21st, inst., we beg to say that when we submitted our bid for the change at Brockton, amounting to \$1,290., it was our intention to undertake to do the work in connection with making this change, except as regards alterations to the engine. We should, however, profer you to do the work in connection with setting up the new machines, and beg to submit the following proposal:-

We will supply you with mutorial as below at the prices named:

TWO 200 III. It dynamos (10 candis ponsitions -	,
Two belts for samo	80.25
Two regulators for the above machines	115.00
Switches for same	13,60
Two double dynamo switches for changing circuits.	49.40

We will take back from you, one 800 light dynamo and one belt, allowing you \$1,400, for the former and \$30, for the latter

This will leave an amount to be paid us of \$552.01

Repairing 800 light machines.

December 20th.

You will do all work in connection with putting up those machines, pay expenses of boxing and shipping the machine and belt returned to us.

Floase let us know if this will be satisfactory.

Very truly yours,

Thomas A. Edison Constn. Dopt.

В

LOY

becember 26th.

Charles P. Lyon, Esq

Post Office,

Pottsville, Penna,

Dear Sir:-

In roply to your lotter of the sind, inst., we beg to
say that we consider it advisable for you to obtain as much
information as possible in regard to real estate for sale in the
different towns you canvass. There are no regular report forms
calculated to embody this information, and you can send it to us in

Yours truly.

Thomas A. Edison Constn. Dept

iny 9101

December 20th.

Thomas F. Righter, Esq. Treas.

Ht. Carnol, Fenna.

Dear Sir:-

In roply to your letter of the 17th, inst., we bog to say that we will extend your lines from Fifth Street slong the alloy between Marle and Cal Streets to Sixth Street, in order to take in your bouse, without extra charge to your Company.

This concession will cost us about \$100, more than we have allowed for in our contract, but inammuch as you state Mr. Edison promised it, we will of course undertake to do the Work.

In regard to running along Sixth Street instead of Fifth Street, this change would alter our electrical determination and would render useless the greater part of the wire we have shipped to Mt.Carmol. Your house can be taken in by a service from the entrance on Sixth Street to the alley between Maple and Oak Streets It is impossible for us to made any other changes in this installation, and we trust you will be muticated with the alterations made in accordance with this lotter.

Ploase show this communication to be Schwenk, and toll
him that it answers his communication of the 17th. inst.

Very truly yours.

Thomas A. Edison Constn. Dept.

asy

December 20th. 3

John M. Stewart, Esq.

2096 Third Avenue, City

Dear Sir;-

In reply to your latter of the leth, inst., I shall be glad to have you call at this office as early as possible, bringing with you any latters of Yescommendation which you may have.

s truly,

Jak 1

December 20th

33

M. Y. Safety Steam Power Co.

30 Cortlandt Street, City.

Dear Sirc:-

July you please lot us know the price, together with our best possible discount, for your vertical engines cylinder 3 x 5, and designated in your catalogue of Hovesbor, 1883, as figure No.5. If we can make satisfactory arrangements with you in regard to prices we may adopt these engines in all our contral stations, and will probably be able to place large orders with

Very truly yours,

Thomas A. Edison Constn. Dopt.

В

acey

Dec. 27th,

W. H. Douty, Esq. Pros.

Shamokin, Penna.

Dear Sir:-

Refeering to the amount of \$2,000 which is still ou standing on our books against your Company, we should very much to know what your intentions are as regards the sottlement. You are no doubt aware that as Var as we are concerned the "Shamokin Installation, was fine neighly a heavy failure, and in "consideration of this fact, we are compelled to urgettou to make a speedy settlement of the balance now dog us. The dath of the bill which was made out to your | Company, specifying the materia. which had been supplied on account of the contract, is October 13th, andfrom that Aut we will charge you interest at the rate of 12 per cent per anum. We can assure you that hthis interest by no means compensates us for the less we are sustaining through the tardiness of your sompany. We turn our money so quickly that the principle yields much more by being in our hands, so that we can directly control it, than by being let out at any rate of interest, which it would appear reasonable to charge." We can assure you that it is as distasteful for us to have to remind you of this matter so often, as it is for you to re-

-

Doc. 27th

"coive our letters, at the same time we think that we are not being justly dealt with, when the affair is last dermant except at such times as it is brought directly to y are detention by letters from this Office.

for trust you will therefore send us a check for the full amount upon receipt of this lotter, together with 850.00 which is the interest from the date of your bills namely decober 13th, to the present time, and which is charged to you at the rate above mentioned.

Very Truly Yours,

rac

Shamolein

Dec. 27th

W. H. Douty, Esq. Pres.

Shamokin, Penna.

Doar Sir:-

In relation to the 150 temporary fixtures which you returned from Shamekin, andfor which you desired us to give you credit, we beg to say that the amount charged you for these fixtures was 40 2 cents each. He shall therefore have pleasure in allowing you the same rate, as the fixtures are in order and we can use them elsewhere.

In November we wrote you a letter in regard to our acmigrount, and some errors which were made therein, in connection
with calculating the amount to be deducted for certain work which
was not performed. By referring to the said letter, you will
find that you credited your account with \$56.92 too much. The
amount which we will allow you for 150 fixtures is \$72.75, and aafter deducting the overcharge referred to we will one you

We wrote you to day in referrance to the balance still due on your contract, and asking you to send us a check for \$2,050. If you will therefore make this check for \$2,034.17 it will square our accounts.

Vory Truly Yours, 9 2 8

Docember 28th.

J. F. Kirby, Esq.

Essex liouse,

Salom, Yass.

Dear Sir:-

in reply to your letter of the Dith. inst., we bon to say that after you are through with the Jawrence company we can probably do semething for you.

Yours truly,

Thomas A. Edison Constn. Port.

R

Roy

Dogowhou 20st

John Hullen, Esq. Treas.

Shamolin, Penna.

Dear Sir:-

I have your letter of the 20th, inst., and in reply bon to say that I do not quite understand the meaning of it. I have no stock in the Shamekin company. There is a balance of \$2,000, due on our contract, and I have written an bouty in relation to it to-day.

Very truly yours.

mu

December 28th.

E. H. Lord, Esq. Treas.

Lawrence, Hass.

Doar Sir;-

In relation to your lotter of the lith, inst., wherein you asked us to supply you with two more "H" dynames and another 142 x luminging, which necessitated the bodplate and washers, we presume the dynames have been received in Laurence, the bodplate and washers were shipped jesterday and the engine is being louded to-day.

Will you be kind enough to sold us your check for \$1,277.50, which is twenty five per cent of the amount of this order, and which should be paid to us upon the reception of your requisition, in accordance with the terms of our agreement. The above amount is made up as follows:-

Will you not require some for offertical apparatus in connection with this addition to your station? Shall we get a list of what is necessary from our Electrical Engineer, Hr. Andrews, or well you send us a requisition for what you want?

Yours truly,

Decombor 28th. 3

W. S. Androws, Esq.

Tirfin. Ohio

Dear Sir-

We have received a telegram from the Secretary of the fiffin Company in relation to services, and in relay to same we told him that Mr. Conant would give all necessary explanations as to how the customers are to be cut in. We have forwarded the wire for this jurpose and if any other material is required wish you would be good enough to have the Company send us a requisition for it.

Yours truly,

Thomas A. Edison Constn. Pont.

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MOY,

Docomber 25th.

li. Ward Joonard, Esq.

Lawrenco, Mass.

Doar Sire-

We have this morning received your letter of the 30hh, inst.

The No. 30 copper whre you speak of will be expressed to-day or to-morrow.

In relation to drawing upon us, we beg to inform you that this is a privilege which we very rarely extend to our on-ployees, and only in cases of absolute necessity do we allow them to make drafts on us for money. If you desire it we shall be glad to send you a check once a week for your salary and allowance, or at such intervals as you would prefer.

Mr. Andrews gave us a requisition for the material mentioned in your letter, and his request is having our attention.

Wo onclose herowith check to balance your account to

date.

Yours truly,

Thomas A. Edison Constn. Dept.

341

ap

W. I. Garrison, Esq. Treas.

B. O. Box 3627.

Boston. Hass.

Doar Sir:-

In accordance with your request we have pleasure in employing herewith a detailed statement of our account against you for \$1,170.42, which was the one you wanted us to itemize. If you have may counter charges, we wish you would be kind enough to send us a statement of them at the earliest possible moment, as it is our desire to close this matter out and obtain whatever balance may be due us, as we wish to use the money. In accordance with the statement sent you yo still owe us 5537.42

Vory truly yours,

Thomas A. Edison Constn. Dopt.

by A

Enclosure, b.

Docombor 28th.

James Harris, Esq. Secty.

Ballefonte, Penna.

Dear Sir:-

We have received your telegram of yesterday's date in regard to the millefente street installation, and in which you state that the wires do not extend to link a Curtin Structs, as acroed with Mr. Shaw.

In reply we beg to say that we know nothing of Mr. Shaw's statements in connection with this matter. On the 2nd. November we sent Mr. Shaw a letter enclosing an estimate for the erection of an Edison Electric light Central Station Plant of 300 lights especity and amounting to \$14,701.00, together with the forms of Auroment, map showing the proposed course of our designators and plan of the general arrangement of the station we proposed creeting we called Mr. Shaw's attention to the fact that there were UAS lights covered by our wires. The next day we get a tolegram from Mr. Shaw asking what it would cost to increase this plant to 400 lights, and on November 5th, we wired him that to make a Hell's efente estimate for 800 lights capacity, instead of 500 lights capacity, would increase the figures sent him on the 2nd; November by \$2,310. This brought the amount of our estimate up to

\$17,071.60 Your Company made some few deductions in the minor details of the estimate, which reduced it to \$16,557.27

You will soo from this that the subject of the change in the street installation was not breached at all, and that the increased caracity of the station was made in view of the fact that there were BAS lights in the district, and that it would be advisable to take them all in.

We will send you to sorrow our figures for making the extension you desire, and if they are accepted we will have the material sent forward figurediately.

Vory truly yours,

Thomas A. Edison Constn. Dont.

By

Tale 1

Dogombor 28th.

W. H. Owelloy, JrEsq. Treas.

Fall Rivor, Mass

Doar Sir:-

We beg to acknowledge with many thanks receipt of your check for \$4,000. on account of the Fall River installation, and in reply to your letter under same cover, in which you say you had made the third payment, we would state that at the time the station was ready to supply light there was an assumt of \$2,014.45 on account of the third payment due us, which was made up in the following manner:-

Ton per cont of the amount of our contract, namely, \$4,160.60, was jaid upon the signing of the agreement; twenty per cont, namely, \$8,381.00, was to have been made on October 25th.; and twenty five per cent, namely, \$10,452,47, was to have been paid when the installation was ready to supply light. These payments aggregate \$22,995,43

The amounts received from you are, as stated in your letter, \$4,186.00, \$0,000, and \$0,366., making a total of \$20,000.go.
This loft a balance of \$2,314.43, which we mentioned above as being due us last week and it was this amount we had reference to when you telegraphed you.

We are very much obliged for the check you sent us and

have given you credit for same,

We return herewith receipt.

Very truly yours,

Thomas A. Edison Constn. Dept.

By (In

Enclosure, a

Documbor 20th,

R. G. Acheson, Esq.

13 East Stroot,

Red Jion Square,

london, W. C. England.

Doar Sir:-

In reply to your letter of the 18th, inst., to hand today, I beg to say that we can give you a situation, but cannot at
the moment say definitely what it will be, and if you come over
it will be necessary for you to take whatever turns up.

Very truly yours,

pac

December 20th.

E. B. Hubbard, Esq. Secty.

Tiffin, Ohio.

Dear Sir:-

We have received your fologram of the 25th, inst.

regarding the cervice wire, and in reply beg to say that Mr. Conant
will give all explanations in relation to cutting in customers and
the running of service wires, material for which purpose has been
forwarded to Tiffin.

Very truly yours, Thomas A. Edison Constn. Dopt.

Ey aray

Denomber 28.4h

W. D. Rich, Esq.

Hellefonto, Ponna,

Door Sire-

In relation to the may sent you showing the course or the hole lines at Mt. Carmel, we beg to say that we have agreed to extend our line on Fear Alley from Fifth Street to Sixth Street. It will necessitate about four more poles and we have ordered forward the additional wire. We send you another map showing the extension referred to.

Yours truly,

Thomas A. Edipon Constn. Dojt.

7 1

Enclosuro

December 28th.

W. D. Rich, Esq.

Bellefonte, Penna

Doar Sir:-

In reply to your letter of the &snd. Inst., wherein you make a sketch of the kellerente building, we beg to say that your arrangement is the only one which, under the circumstances, will alter our plans to conform therewith.

Yours truly,

Thomas A. Edison Constn. Dent.

D-

acy

Docomber 28th.

Sidney B. Paine, Esq.

P. O. Box 3311,

Boston, Mass

Doar Sir:-

In reply to your latter of the 27th, inst., we beg to say that an 800 to 1200 light plant, pole line, varios from \$2.1, to \$2.0, per light. This cost includes the running of the station for thirty days at our expense after same is ready to supply light. The machines which we would ded in connection with a 1200 light plant would be two "Y dynamos, which give \$000 ten candle power lamps each, and one \$2.x 12 origine. You of course understand that it is difficult to approximate the cost of any plant, as there are such a variety of directions which cause the amount

Very truly yours,

Thomas A. Rdlson Constn. Dept.

... (Q.D)

Describer 20th

A. Stuart, Esq. Socty.

Gincinnati, Ohio

Doar Sir:-

We beg to inform you that we are still awaiting information in connection with real estate for limb and Washington C. E., Ohio, Cynthians and Maysville, My, and Canton and Chillicothe, Ohio.

Yours truly,

Thomas Af Edison Constn. Dept.

By AND

Decembe. 30....

Societe d'Appareillage Electrique,

Geneva, Switzerland,

Dear Sirs:-

Your letter of the 27th. October has remained unanswered until the present time in order that some new types of dynamos which I had under course of construction might be finished. This work has now been completed, and I have the pleasure to enclose herewith the report of our Mr Clark, who is the Engineer of the Edison Electric Light Company, and which report will answer all the queries contained in your communication referred to.

The price of the new 200 light dynamo is \$725., F. O. E. New York, with regular winding, for higher volts probably be \$75., more each.

Trusting that this information will not arrive too late to be of service to you, I beg to remain,

Very Truly Yours,

Enclosure, i.

708

G5 Fifth Avenuo,

New York, Docember 20th, 1883.

Samuol Insull, Jr., Esq.

21 Burton Croscent,

Iondon, W. C. England.

liv Door Trism11:-

In my letter of last evening I mentioned to you that we had a list of the stockholders in the Williamsport Co... and that we were soing through Bradstreets to ascertain their standing. None of them are quoted. Shaw and young Detwiler word in here yesterday and told us that they were all professional men and were not given a rating. We find that P. B. Shaw, Dr. Detwiler and young betwiler hold about one third of the stock. We are going to send Russell to Williamsport to find out all about this business, which looks very "fishy." They have not yet, as I stated in my letter, paid in my the first instalment, and in our opingon we think the intention of this Company is to spanpe together twenty five per cont of the amount of our contract. after which nothing will be due us until the installation is ready to supply light. Upon our getting this far in the matter they imagine it will be impossible for us to withdraw, and they can make us carry it until they dispose of the large amount of stock held by the above mentioned trio. None of these three luminatios have one dollar to rub against another, and I think we are justified in drawing these conclusions in connection with their intentions. We have not sant out a single order yet, nor do we intend to until the matter has been thoroughly investigated and we feel perfectly satisfied that our mondy will be forthcoming when it isdue.

Vory truly yours,

December 25th.

A. A. Cowles, Esq. Sucty.

Ansonia brass & Copper Co.

lo Cliff Street, City.

Doar Sir;-

Allow us to introduce to you Mr. C. F. Manington, who was formerly one of the partners in our late wiring Department,

Very truly yours,

Thomas A. Edison Constn. Dept.

ėv

Decomber 31st.

3

A. S. Hissell, Esq.

2413 Brairie Avenue,

Chicago, Ills.

Doar Sir:-

We have your letter of the 20th inst., and in reply to your Par.1, Q.1. best to say that we are daily expecting an answer from Mr. Shaw in regard to your assisting him in Penna.

In relation to your P.2., we beg to say that the canvass of linexylle has been completed, and we expect to receive it to-

Very truly yours.

Thomas A. Edison Constn. Dopt.

Ву

avy

ocember Sist. 3

W. D. Rich, Esq.

Bollofonte, Penna,

Door Sir:-

In reply to your letter of the Ath, inst., in relation to the injector at Tiffin, we beg to say that we have discontinued the use of exhaust injectors, and have adopted the "lorting" injector.

Wo will send you a supply of instruction cards, which you can distribute as you see fit.

Very truly yours,

Thomas A. Edison Constr. Dort.

ŀ

December 31st, 1883,

George H. Bliss, Esq. Gen'l. Supt.

Chicago, 111s.

Doar Sir:-

In roply to your letter of the 23nd inst., in which you state that you were furnished with "t" brushes with "0" dynamos, we box to say that we use "F" brushes in the old style brushholders of the 25 and 36 light machines. We recently changed the brushholders on these machines and used "H" brushes in connection with them. It is now our intention to use double brushes on all machines.

When the dynamos you speak of were tested at our Works we had no trouble with the brushes or brushholders in question.

Very truly yours,

The Edison Hachine Works,

1

December 31st.

W. H. Dwalloy, Jr. Esq. Treas.

Pall River, Hass.

Dear Sir:-

In relation to exchanging the u¹2 x 10 engine at Pall River for a u¹2 x 12, we beg to say that we will supply you with material and labor as follows:-

Total...... 1,235.71

7ctal..... 888.08

This makes the cost to you of the above change \$347.63; but in addition to this amount we shall ask you to pay the salary, expenses and railway fare of our man, whom it will be necessary to send to Pall River to do the work.

Will you kindly let us know if this will be satisfactory

2

at the earliest possible moment, Armington & Sims having a great many orders booked, and we may have trouble in getting the $0^{1/2} \times 12$ engine promptly, and the scener we get our order in the better.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Titre

July!

December 31st. 3

Winfield S. Hutchinson, Esq.

53 Dovonshire Street,

Roston, Mass.

Doar Sir:-

I have your latter of the 20th, inst, in relation to powers of attorney for Wn Jose D. Nusbands, and herewith I beg to enclose these decuments properly executed.

kindly acknowledge receipt and oblive,

Day

Docomber 31st. 1883.

J. S. & M. Pockham

Utica. H.Y.

Door Sirs:-

In relation to mica, we beg to say that we sent the samples your an Pockham left at this office to the Superintendent of our Works, and had his weigh them, after which he cut them into sizes that he could use and weighed them again, so as to ascortain the cost of the mica to us properly cut. The result of the experiment has been that 3b centa per pound is too high a price for us to pay for mica, such as the sample sent us.

Very truly yours,

The Edison Machine Works.

Ву

Jaky

Gustay Soldan, Esq. Supt.

104 Goorek Street, City.

Dear Sir:-

In relation to paper pulleys, do you not think it would be a good idea for us to adopt them in future?

Yours truly,

The Edison Machine Works,

By a a ass

P. B. Shaw, Esq.

Williamsport, Penna

Dear Sir:-

Mr. A. S. Fiscell, who has lately been in Knoxville working up the interests of the Edison light at that point, requested us to write to you and ask you if he could in any way assist you with your work in Pennsylvania. We do not know whether you are assuminted with this gentleman or not, but if you desire any information in regard to him and his capabilities, no doubt him leastings could give it to you.

Awaiting your roply, which Mr kissell requests us to transmit to him, we are,

Very truly yours,

Thomas A. Edison Constn. Dept.

Trans

Milesty Schwonk, Esq. I rest.

Lt. Carmel, lenna.

Doar Sir:-

In reply to your letter of the 2bth, inst., we been to say that we will have our wireman at kt.Cornel at the earliest possible moment. We have had to start so many stations all at once, and as expert help of this character is security to the same of the same

We wrote to keenrs. Perghann & Co., asking them to hurry your material.

Yory truly yours,

Thomas A. Edison Constn. Dept.

Н

James Barris, Esq. Secty.

Bollofonte, | Ionna.

Doar Sir:-

We have your letter of the Seth. list., in which you state that there seems to be a misunderstanding in regard to what you are to receive under agreement for an boo light plant.

In reply to your letter, we beg to enclose herewith wx cories of the 500 and 800 light estimates. You will notice that in each case the amount for the street installation is exactly the same, namely, \$4,056.15, and the map showing the course of our street installation which was submitted with the 300 light estimate is exactly the same as the one submitted with the 800 light estimato. You will observe that the district in each case covers EAS lights, and we prosumed that it was in order to take in all those lights that you requested us to submit an 800 light estimate, instead of a 500 light. The amount of the 500 light estimate is \$14.761.60; the emount we charged you for increasing the capacity of your plant to bor lights, instead of 500 lights, was \$2,310. This brought the amount of the 800 light estimate up to \$17,071,60, but your Company deducted some of the smaller supplies, which they proferred purphasing themselves, which reduced the amount of the estimate to \$16,567.27

We are at a less to understand your statement that your Company have never seen a copy of our 800 light estimate.

In Shaw was given this estimate, and after the Fellerente Company had made those deductions in the minor details, of which we have speken, he had the estimate typowritten and returned to us, and we have this copy in the office.

The amount of the increase was for changes in the boiler, ongine and dynamos, which all had to be of larger capacity, also for a larger building.

In connection with this building, after our contract was closed you desired it made larger still, and allowed us \$200. for extending it. This makes the amount of our contract with you \$10,707.27

We trust that as far as we are concerned this explana-

Vory truly yours,

Thomas A. Edison Constn. Dept.

Hur

Enclosure, c.

December 31st.1883.

Gustav Soldan, Esq. Supt.

104 Guerck Street, City.

Dear Sirt-

We have your lotter of the with, inst. reporting test n

What I want to ascertain is the non-sparking point sharply defined? With same asperse is the position of non-sparking point the same and does the brush have to be adjusted finer to obtain non-sparking point?

Also please let me know if the new iron gives higher

fours truly,

Charles P. Ivon. Esc.

Post Office,

Pettsville, Fenna,

Door Sir:-

In relation to your canvasses, in future when mentioning tonement houses, will you please simply state "tonement" and not "class thom as second, third or fourth. Please do not take any notice on your canvass of fourth class houses, and also be kind onough not to abbreviate your canvass and call a restaurant or bar "R", but write out in full what it is, and very much oblige,

Yours truly.

Thomas A. Edibin Constn. Dopt.

Documber 31st.

Messrs, Earlie & Hall,

33 Congress Street, W

Dotroit, Mich.

Doar Sirs:-

aware that there is a building on it. We should like to have a carefully figured statch or drawing or this building, showing the exact size incide, also showing

tion of columns or interior wills, if there are any, also size of floor beams and dustance from contro to contro of same. Are side walls and coilings plastored or sheathed with boards?

Wo would beg to call your earnest attention to the fact that this information must be very accurate, and we should like the plan made on as large a scale as possible. Immediately on receipt of this data we will forward you the Yesilanti estimate, all matters in connection with which must remain in abeyance until we

hear from you.

Very truly yours, Thomas A. Edison Constn. Dept. Referring to your memo of this date about Shampkiffall I can say is that Armington & Simsuman makes the assertion
that the piece of the regulator which was reversed was put on my a
fiveal equineer, before he arrived there. This is denied by the
man who is supposed to have done the work before Armington & Simsman arrived a Shambkin. Now although theyminates that they were
mot st fault. I see no reason to doubt Armington & Sims man, nor
do I see may reason particularly to doubt the local people, except
that we man plue makes a mistake usually tries to cover it up and
the assumption is that the man that Armington & Sims wells sent
to Shambkin woult know semesthing about fixing up the regulator
off their ongines, whereas the exployee of a local machine shop
would in all probability know nothing about fixing up such and

S. Ineulli

By. H.

1883. Edison, T.A. - Suppliers (D-83-017)

This folder contains correspondence and other documents relating to suppliers of equipment and materials for Edison and his companies. Many of the documents deal contained for the construction of central stations by the Thomas A. Edison Construction performent. The items filmed contain significant Edison marginalia or provide significant information about the equipment or materials being purchased.

Approximately 10 percent of the documents have been filmed. Routine correspondence has not been filmed.



NEW YORK CITY :--

585.5255....

DEAR SIR !

TWO YEARS AGO WE BUILT FROM PLANS OF CAPTAIN ERICSSON A STEAM ENGINE WHICH HAS PERFECT TO A DYNAMO AND ECTRIC LIGHTS, THE ENGINE BEING CONNECTED DIRECT TO A DYNAMO AND MAKING ABOUT 900 REVOLUTIONS PER MINUTE. IT HAS WORKED SO, WELL THAT CAPT. ERICSSON HAS THOUGHT BEST FOR US TO BUILD ANOTHER MACHINE, ADDING SUCH IMPROVEMENTS AS MAY HAVE SUGGESTED THEMSELVES BY THE USE OF THIS FIRST ONE. THE SECOND MACHINE IS NOW FINISHED AND RUNNING AND CAPT. ERICSSON, AS WELL AS OURSELVES, IS ANXIOUS TO HAVE THIS MACHINE TO LIGHT A PORTION OF OUR OWN WORKS AND BEALISVE IT TO BE ADMIRABLY ADAPTED FOR THAT PURPOSE. WE THINK YOU WILL FEEL A VERY GREAT INTEREST IN IT WHEN YOU SEE IT RUN, THE REGULATION AND LUBRICATION BEING ABSOLUTELY PERFECT.

Please address ALL business communications to C. H. DELAMATER & CO.



WRITES THIS LETTER, HOPING THAT YOU WILL GRANT AN INTERVIEW AT YOUR ONE CONVENIENCE AT YOUR PLACE WITH OUR MR. REYNOLDS WHO WILL EXPLAIN TO YOU WHAT IS REQUIRED IN ORDER TO ATTACH ONE OF YOUR MACCHINES TO THIS ENGINE,

SHOPING TO THE ARVERON YOU SOON WE TARE

YOURS RESPECTFULLY,

C. H. DE LANATER & CO.

The second of th

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Please address ALL business communications to C. H. DELAMATER & CO.

Mestern Clectric Company, New Pork. ilit Tachino metrawent Causedand Lave Ester Elierie Co. ielly frie from non &

BALL ENGINE COMPANY Automatic Cut-Off ENGINES. Co but without the question of the superiority Engine for Cheetine hydring, state our Coar Sniflyquestion of begulation on as absolutely hold an Engine to Stand involve full Changes of load as the world more Prom valor is far Superior to way your Automatic Engine wir. He give the Righest attainable Economy of an Engine Coloste of ling Continue Mone Laving the most infront system of lubrication. Me have Eagure at the Poster fair , of it

BALL ENGINE COMPANY. Automatic Cut-Off ENGINES. you toget better beaute Engin Such as we described m will make the following proposition settle is not could you la draw in is for the Effection befor Eletive Engine of the Electure Or as a Respectively Yours Mickely

ErieGa/ ON 171883 Thos a Edison Tog how long you would like 65 Figeh Car to test other augue. ourmorth N.4. Car You may expect the following Dear for torsulto Hoow our edgine The thank you which houles in always your prompt reply to our guarantus. I st Chirply an Exaction of Eletter and beg to say Ethat your suggestion is regulation that us other Entirely satisfactory to us, sigstem of governing can (possibly goda de soon as du rugine and In the matter of fuel year be spared me shall be Economy as good tasulto as Iglad to send you a 9x12 any enfine can give, speeded to 300 revolutions for you to test at your with, Our standard pully or this engine in 40°, Will 30 and engine of very superior design + Juish and Extremely sulply in construction ac this suit four nquireunts. a risult of which the Engine is capable of long continuous If not please state what runs. as an evidence of six will. Please state also

ANUTATURES OF THE MALL COLUMN STATES OF THE

The probability of our down

you to the Boston Fair where the superior proformance

of our angue is admitted by all. Blean notice the

Ornerican machinest of this week which speake of the results obtained by our

the could give you very flattering itestamountals

but me rafrain from doing to as me know you mant the practical alumnstration

ander your own superorsion. In considering the good founds of our engine me

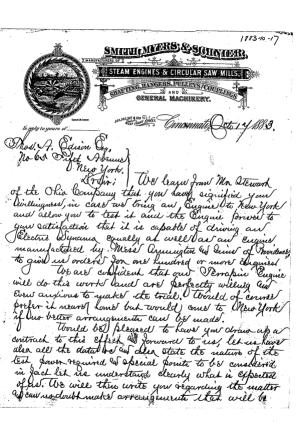
points of our engine me hope you will not vorslook

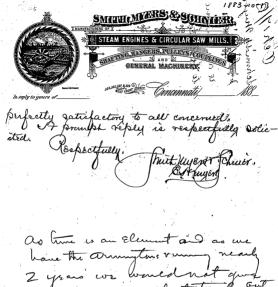
the valve which has that maring surfaces taking up its own mar which is extantly a vary much batter

value than a pixton value particularly so when considering the question of long life of the argue. We shall be

glad to thear from you ut your carbinet consumer.

Your Truly Ball Engine C





orker for 100 an ohart trial out we will put up an Engue at Court Sheet works a feet the barrie 2 or 3 months of Satisfied buy a large lot of Enguer buy to large to the four than = they pay freight step for buy to buy the large of

1×18 800 ro Och 1/B AGN 100 Schmids Muyer Walter 100 rean engine

1883.10-31

BECKER & SONS,

Street, Now York, Och 31 st 1883

.....188...

Dear Sir.



DALL ENGINE COMPANY

Automatic Gut-Off Engines,

GOVERNOR WEIGHS THE LOAD.

Those a . Edison En Whunderson 65 Efet arm Smatted her for

In reply to your bound to Dear Vir. we will ask you whether after a less satisfied that are engine power them now in use we may hope for ton with you or whether your present posters proclude the probability a persite lighty of the sort. You understand that we don't care to inew the expense of a test spency to-Rolify curiosity a be consince, you of a fact if there is no probablity of its reculting in hesinen. In our last letter we gave you any idea of what we explicit to demondente 4- ym. you afeat of a 91/2 x12 which Rize we do not build but would send you 9 K12. In regard 6- pulley you speak of a 56" pullay. He have no pater of that size I have now had an order requiring it.

BALL ENGINE CO., EIR, Pr. New 6 1883 To Then a Edin We have 40" , 44" or would proper to are one of chees rather than mate a new pattern for which we might have no puther we after this text. Could it not be awanged with counter shape In the purposer of the text. In regard to the expenses of these we suffine you will conduct the lest if we deliver the singuise in your slip a set it up for you. are ar right about this a if as will them to any ununal expense attending the placing of engue where you can use it. We are my desirous of giving you this demandiation of you went It. Having gone Atmugh Runilar lists on presion occasione we know put what the result will be & you may be once your dynamo will make. absolutely the same number of undaline when doing it work as when running emply. awaiting you this wifely we are you Very Tomey Ball Engan C

FIN-Bale Fr

ENGINE COMPANY Automatic Gut-Off Engines, Edism mel faythe Vietal statement of our patent Carryer in refrence to the question Do you infringe on armeny his voins, His answer is "m are for for but we will got a well go Elatorally into we lave the only potents Every the principle the mill furnish this information as from as weed Respect Your Walk Sugar

1883-11-02 BECKER & SONS, AND WEIGHTS OF PRECISION.

WALLEY IRON WORKS,
Manufacturing Founders & Machinists,
33-43 West Street

WILLIAMSPORT, PENNA. NOV 26'

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1883-11-26 Steam Engines, Boilers and Saw Mill Machinery of every Description. VALLEY IRON WORKS Manufacturing Founders & Machinists, 33--43 West Street. WILLIAMSPORT, PENNA. the herkess as there is anywhere manufactured, if should like to sand you one of their no trial. if it proves satisfactory you to retain it. Inch satisfactory it to be returned at our expense, was hurbers manufacturing in sizes to suit the demand wer can offer you this Engine at 4 the less wife, if you will addressed to sent fra The under these terme please girl as length of shaft you refuire & white arm with Quilor Clerk on englof that. Ither forme are not agreeably please suggest some at we dearing you to tryit. Sindly farm we with repla meramuch eshias Ven Richelfully your MCCaleysdeept,

INDIAN MERICAN PAPER PULLEY."
INDIAN APOLIS, IND. Dear 45/883 As I am about Organizing a Company to manfinfaction The faperfully an a large scale Hom statement as Que of your maglion to the advantages the fully trial the paper fully is possesses for Electical a new montion and machinery would be of where it has been tested great benefit . Your me. has Commanded the fullest Chanical Superintendent andorsement by mechanical who has been using the Seymer. It hold the best Julley aught- to be oble from Sliffingal great to the to give the information and Cubber Covered Pully, 21which to base Juck ofmion is 1/3ª lighter than the Cart I take the liberty of addressing crow fully and in The you person ally on the Lug Sinting advantage of gettion yello Taylor whome Down fully 25 percent, I lim aiding his the organing is in the organing at Jower over theordinary Cast work

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1883-12-04

Martindale's

PATENT PAPER PULLEYS,

MANUFACTURED ONLY BY



American Paper Pulley Co.

4 and 1.6 S. Pennsylvania St.,

INDIANAPOLIS, IND.

DEALERS IN

SHAFTING, HANGERS AND BELTING

American Paper Pulley Co.

MANUFACTURERS OF

Paper Pulleys, Wooden Pulleys,

AND

Paper Disc Wrought-Iron Rim Pulleys, Wood Disc Wrought-Iron Rim Pulleys,

AND

Friction Pulleys.

Our Pulleys are stronger, lighter and cheaper than Cast-Iron Pulleys and are infinitely superior and preferable to any Pulley manufactured.

Our product fully covered by Letters Paten 117 Unite States and Foreign Countries

No more broken Pulleys to sell for scrap, or poorly balanced Pulleys to rack your line or counter shaft. PRICE-LIST

PAPER PULLEYS.

Bored, Turned and Balanced, with Set-Srews.

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Write for Discounts. Special Discount to Dealers.

INSTRUUTIONS FOR OIDSHING Give diameter, width of hoo, size of hore, an each driving the real of the state. Tight and loose pulleys should be crewning face, and the hard Fally furnished with type set access.

A Long Pull(ey), a S' ong Pull(ey) and a Pull(ey) altogether.

WE CLAIM THE FOLLOWING ADVANTAGES OVER ANY OTHER PULLEYS

THEY ARE STRONGER and consequently more durable:

1. In the absence of shrinkage strains, to which cast pulleys are sub-

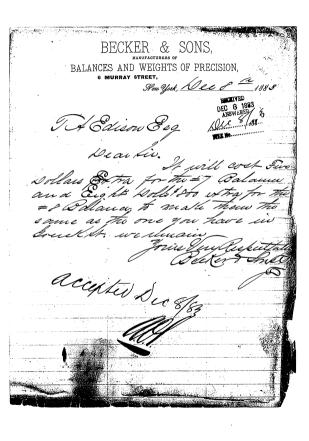
2. The discs or centers being solid, there are no weak or yielding spaces as in a pulley having arms supporting the rims.

3. The rims are not fragile and easily/broken as in cas

THEY ARE LIGHTER one-third to one-half, than other, pulleys, and can be run with safety at higher speed, transmitting the same power with lighter shafting and hangers.

THEY ARE CHEAPER. From the saving in cost of Belts, Shafting and Hangers; there is no danger of breaking in handling, there being a direct loss in this way in Gast. Fron Pulley. A support of the saving of the control of the saving of the control of the saving of the Wrought Fron Stim. Pulley, and outrolly overcome by the use of the Wrought Fron Stim. Pulley, and outrolly overcome, by the nine of the Price Fron Pulley, the belt adhering to wrought Gron Pulley. The belt adhering to wrought Gron Pulley. The belt adhering to wrought Gron Pulley. The

Our Pulleys are designed for any and all classes of work, but especially recommend themselves to mill furnishers, millers, wood workers and machinists. They are not affected by heat or moisture, but should not be used for out door work, where exposed to the weather, inless well painted it, least one a view.







KEEP IN STOCK ONLY OIL, SPINDER BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE SMITH & SON, J. & RECYD, AND TAYLOR WORDSWORTH & CO.

Phoston Mass December 1

Mr. Thomas A. Edison.

Construction Dept. .

Total have to bate

Dear Sir:--

In reply to your esteemed favor of 8th inst supply you with the Harding's speed Indicators in quantity at \$29 net, (our price to sell them single is much higher). could also supply them to you nickle plated, which would cost \$2. more.

We regret that we have no illustrated catalogue, as we should be very happy to forward one to you.

be most hopey to receive your orders, which by cable to insure a speedy delivery



KEEP IN STOCK OLIVE DIL SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE; SMITH & SON, J. & T; BOYD, AND, TAYLOR, WORDSWORTH; & CO.

Roston Mass Deember 13,

D. HATTERSLEY & DOX

Mr. Thomas A. Edison, Constn. Dept.

New York.

Dear Sir:-

SOLE AGENTS FOR PRINCE, SMITH & SO

WHITE A SONS

We have your favor of yesterday, and regret that we have only a few days ago parted with the last Speed Indicators we had in stock, and it may be a few weeks before we can have a fresh supply.

Just 12 months ago we sent six of these machines to the "Edison Light Company", and you may be able to see one or the other in New York.

Yours respectfully,

102 John St. Then Hoch Decl 14 th 1883

Mr. Thos. a. Edison, Construction Department, 65-5th ave. Dear Dir

Your favor of the 12 th mak is received. I have already an order given me personally by Mr. Codion for 500 lbs Dulphate Jene to be free from Jun. Do I understand that you would like a pample before the lot is made. Kindly explain or oblige - Yours truly behave J. White

fu.m.m.

ton from Powers & Weighlman However Gend sample a 500 Us to Talliam Care Regnam



Stoddard, Lovering & Co.

TEXTILE MACHINERY
COTTON AND MOHAIR YARNS, WOOL ETC:

KEEP IN STOCK OLLYE OIL, SPUNDLE BANDS, COMBING PINS, APRON, LEATHER, AND DUPLICATE.
PARTS FOR MACHINERY FROM PRINCE, SMITH & SON, J. & TBOYD, AND TRYLOR, WORDSWORTH & CO.

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J. PREMISSON.
TERPLES.

Boston, Mass December 19, 1883

Mr. Thomas A. Edison.

Construction Dept.,

Dear Sir:--

We just received your telegram inquiring time of his in which we could deliver Indicators.

As we could only guess at it, we have preferred to inquire inquire by cable how soon we could consupon the shipment of it, and will give you our answer to-morrow morning by wire. Should they be in stock, they can probably be delivered in three weeks, otherwise, it may take four to five weeks.

Yours respect fully,

have all the for

DOLE ADEATO
FOR
PRINCE, SMITH & SOR,
WEIGHT COMMISSION
KOLE COMMISSION
KOLE COMMISSION
KOLE COMMISSION
KOLE COMMISSION
KOLE COMMISSION

Stoddard, Lovering &

TEXTILE MACHINERY

COTTON AND MOHAIR YARNS, WOOL ETC.

ONLE AGENTO
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TOWN A TRANSPORT
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CAME OCCUPIED.
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WELL WARTEN.
TORLOTIN.

KEEPIIN STOCK QUIVE OLL, SPUIDLE; BANDS, COMBUNG PIUS, APRON LEATHER AND DUPLICATE Parts for Nachuren' from Prince, Smith & Son, 4. & T. Boyo, *** Tator, wordsworth & Co.

Boston Mars December 21, 188 3.

Mr. Thomas A. Edison.

New York, N. Y.,

Dear Sir:--

We received this morning a cable message from our friends, saying that they could ship 24 Speed Indicators within a month, of which we informed you by wire, and received since your message asking us to order them, which we have done to-night by cable.

We remain, dear sir,

Yours respectfully,

Studeland, Lovering do

1883-12-24 EXTILE MACHINER) TON AND MOHAIR YARNS J.WHITE A SONS. DAERLEIN & CO. KEEP IN STOCK OLIVE OIL, SPINDLE BANDS, COMBING PINS, APRON LEATHER AND DUPLICATE PARTS FOR MACHINERY FROM PRINCE SMITH & SON, J. & T. BOYD, AND TAYLOR, WORDSWORTH & CO. TEMPLES. Proston Man X 1883

(1883)

THE

WOOD AND RICHMOND REFRIGERATION COMPANY,

REFRIGERATING AND ICE MACHINERY,

CONDENSE WATER-COOLERS (Saving 90 per cent. of Water)

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to pass his edge and nto me boiler of you aus **6**) - 3-29(3)

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This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

1883. Edison, T.A. - Visitors (D-83-019) [not filmed]

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.

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